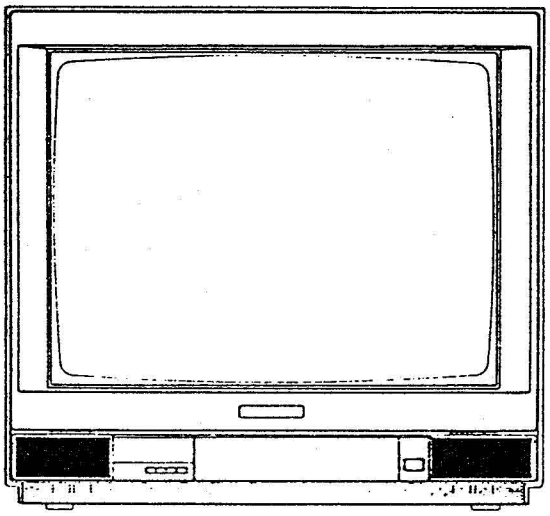
Schaltbild Leiterplatten:

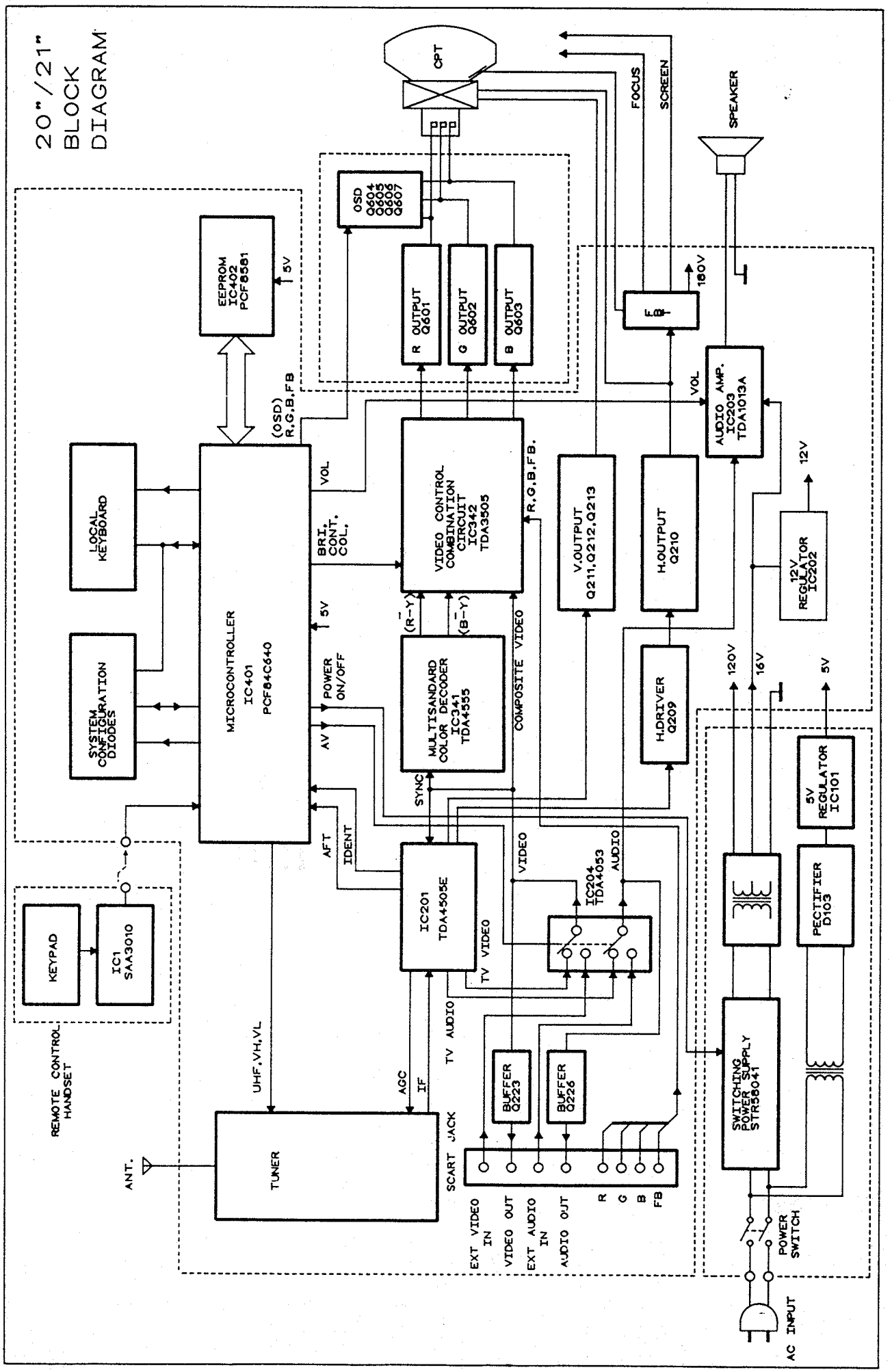


PAL / SECAM with TELETEXT

BESTELL-NR.	0535518
GERAETEBEZEICHNUNG	FARBFERNSEHGERAET
WARENGATTUNG	647
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	51 CM, MONITOR, VT
PRIVILEG	FT 1002 B
LIEFERANTEN-NR.	146941
PREIS	748.00
KATALOG	912
GARANTIEZEIT	6
KD-SEKTOR	F
HEIM/BRINGE	HEIMSERVICE
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

Großversandhaus Quelle, Gustav Schickedanz KG. Nachdruck nicht gestattet
Kundendienstzentralleitung Ulmenstraße 52 Nürnberg Änderungen vorbehalten

Bei allen Reparaturen sind die gültigen Sicherheitsvorschriften zu beachten!


20"/21"
BLOCK
DIAGRAM
CPT
FOCUS
SCREEN
SPEAKER
OSD
Q604
Q605
Q606
Q607
R OUTPUT
Q601
G OUTPUT
Q602
B OUTPUT
Q603
EEPROM
IC402
PCF8581
5V
(OSD)
R,G,B,FB
FBT
160V
VOL
AUDIO AMP.
IC203
TDA1013A
LOCAL
KEYBOARD
MICROCONTROLLER
IC401
PCF84C640
VOL
BRI.
CONT.
COL.
VIDEO CONTROL
COMBINATION
CIRCUIT
IC342
TDA3505
R,G,B,F B.
V.OUTPUT
Q211,Q212,Q213
H.OUTPUT
Q210
12V
12V
REGULATOR
IC202
SYSTEM
CONFIGURATION
DIODES
5V
POWER
ON/OFF
AV
(R-Y)
(B-Y)
MULTISANDARD
COLOR DECODER
IC341
TDA4555
COMPOSITE VIDEO
SYNC
H.DRIVER
Q209
120V
16V
5V
AFT
IDENT
IC201
TDA4505E
VIDEO
IC204
TDA4053
AUDIO
5V
REGULATOR
IC101
KEYPAD
IC1
SAA3010
TV VIDEO
PECTIFIER
D103
REMOTE CONTROL
HANDSET
UHF,VH,VL
AGC
IF
TV AUDIO
BUFFER
Q223
BUFFER
Q226
SWITCHING
POWER SUPPLY
STR58041
ANT.
TUNER
SCART JACK
R
G
B
FB
EXT VIDEO
IN
VIDEO OUT
EXT AUDIO
IN
AUDIO OUT
POWER
SWITCH
AC INPUT

6572

Technische Unterlage

Quelle Technischer Kundendienst 028.097 4

Ersatzteilliste: Ergänzungs Schaltbild:

BESTELL-NR.	0280974
GERAETEBEZEICHNUNG	FARBFERNSEHGERAE
WARENGATTUNG	647
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	51 CM, MONO, AV
PRIVILEG	FT 1002 A
LIEFERANTEN-NR.	146941
PREIS	549.00
KATALOG	924
GARANTIEZEIT	6
KD-SEKTOR	F
HEIM/BRINGE	HEIMSERVICE
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

FT 1002 A

SCHALTBILD IST WEITGEHEND MIT
BEST.-NR. 053.551 8 IDENTISCH. +6366 1/21/9/2
ABGEAENDERTE SCHALTUNGSTEILE
IN ERSATZTEILLISTE ENTHALTEN.

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Kundendienstzentralleitung Ulmenstraße 52 Nürnberg Änderungen vorbehalten

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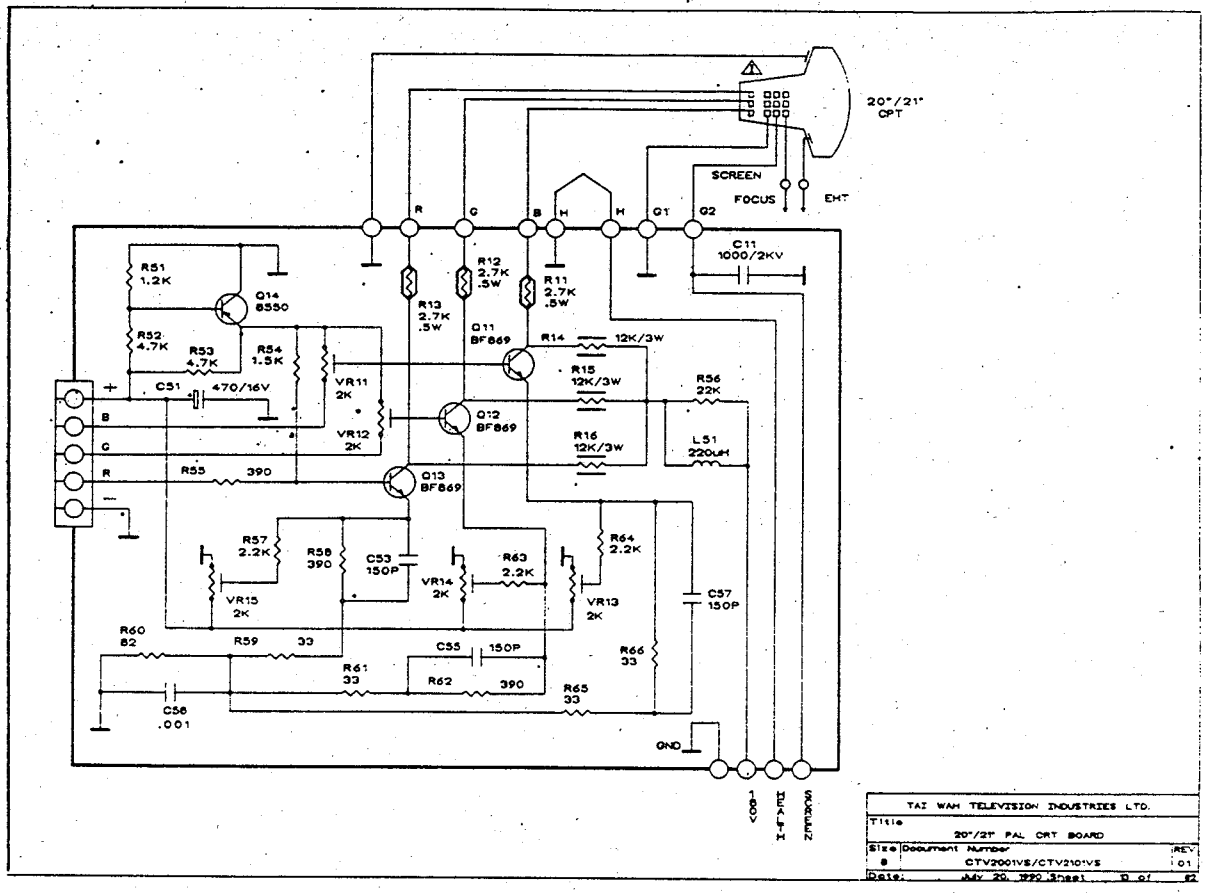
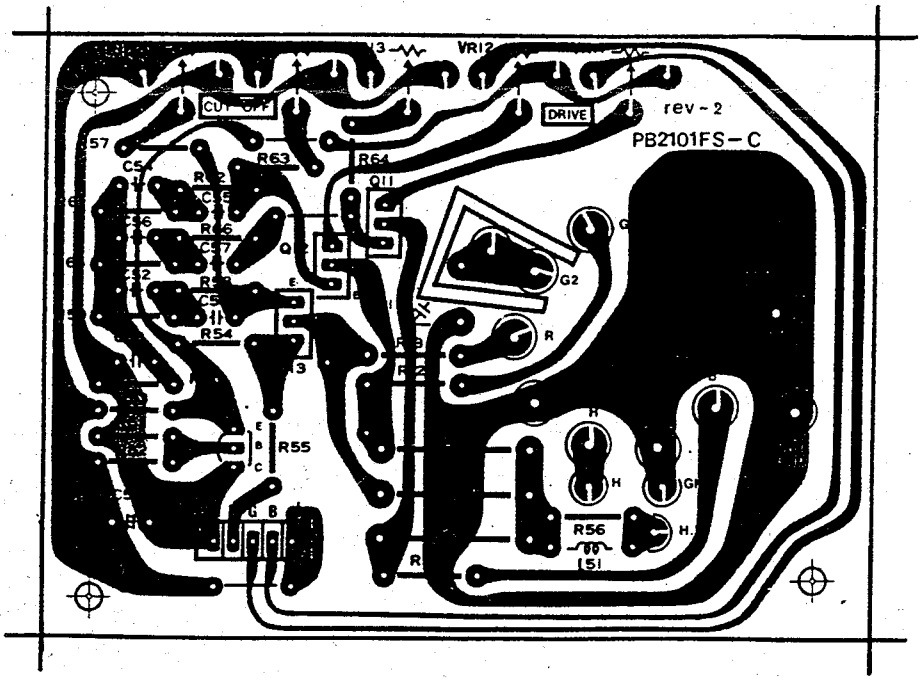
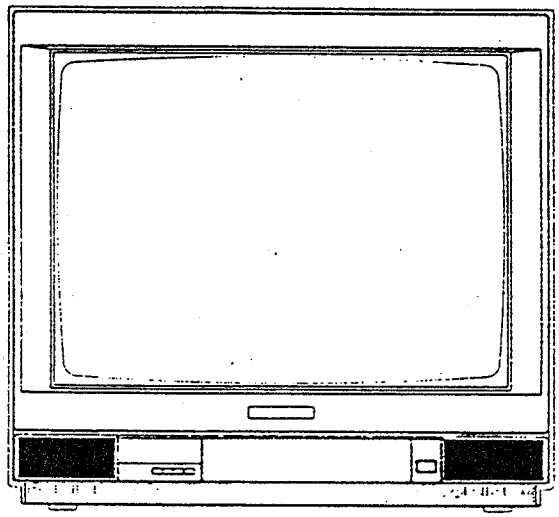
6572


20"/21" CPT
SCREEN
FOCUS
EHT
R
G
B
H
G1
G2
C11 1000/2KV
R51 1.2K
Q14 8550
R52 4.7K
R53 4.7K
R54 1.5K
C51 470/16V
VR11 2K
VR12 2K
R55 390
R12 2.7K .5W
R13 2.7K .5W
R11 2.7K .5W
Q11 BF869
Q12 BF869
Q13 BF869
R14 12K/3W
R15 12K/3W
R16 12K/3W
R56 22K
L51 220uH
R57 2.2K
R58 390
C53 150P
VR14 2K
R63 2.2K
VR15 2K
VR13 2K
R64 2.2K
C57 150P
R60 82
R59 33
R61 33
C55 150P
R62 390
R65 33
R66 33
C56 .001
GND
180V
VERTICAL
TAI WAH TELEVISION INDUSTRIES LTD.
Title
20"/21" PAL CRT BOARD
Size B
Document Number
CTV2001VS/CTV2101VS
REV 01
Date: July 20, 1990 Sheet 10 of 12


VR12
CUT-OFF
DRIVE
rev-2
PB2101FS-C
R63
R64
R54
R55
R56
150
G2
R
H
GND

Quelle Technischer Kundendienst 053.551 8

Ersatzteilliste:



PAL / SECAM
with TELETEXT

BESTELL-NR.	0535518
GERAETEBEZEICHNUNG	FARBFERNSEHGERAET
WARENGATTUNG	647
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	51 CM, MONITOR, VT
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GARANTIEZEIT	6
KD-SEKTOR	F
HEIM/BRINGE	HEIMSERVICE
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

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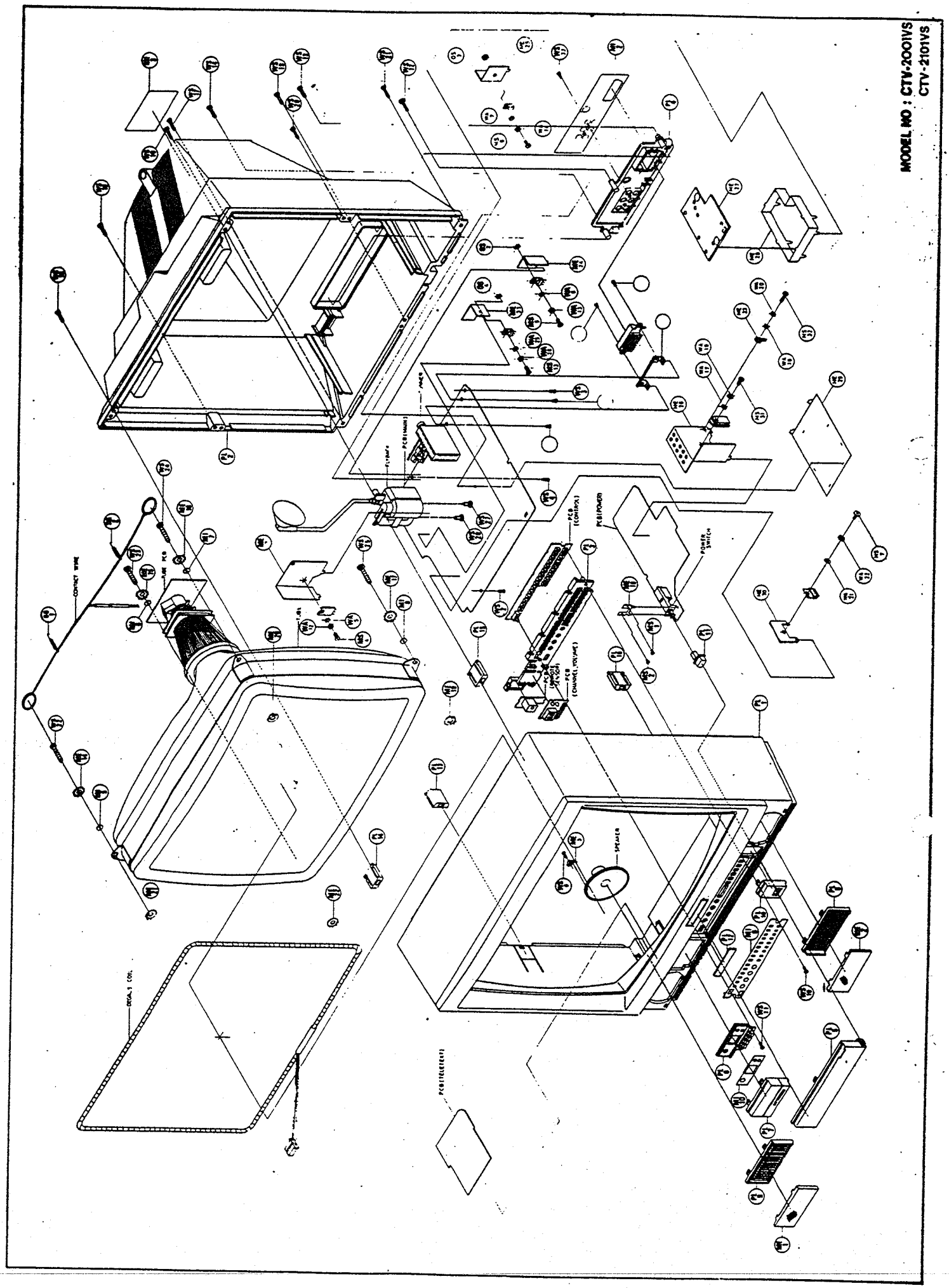
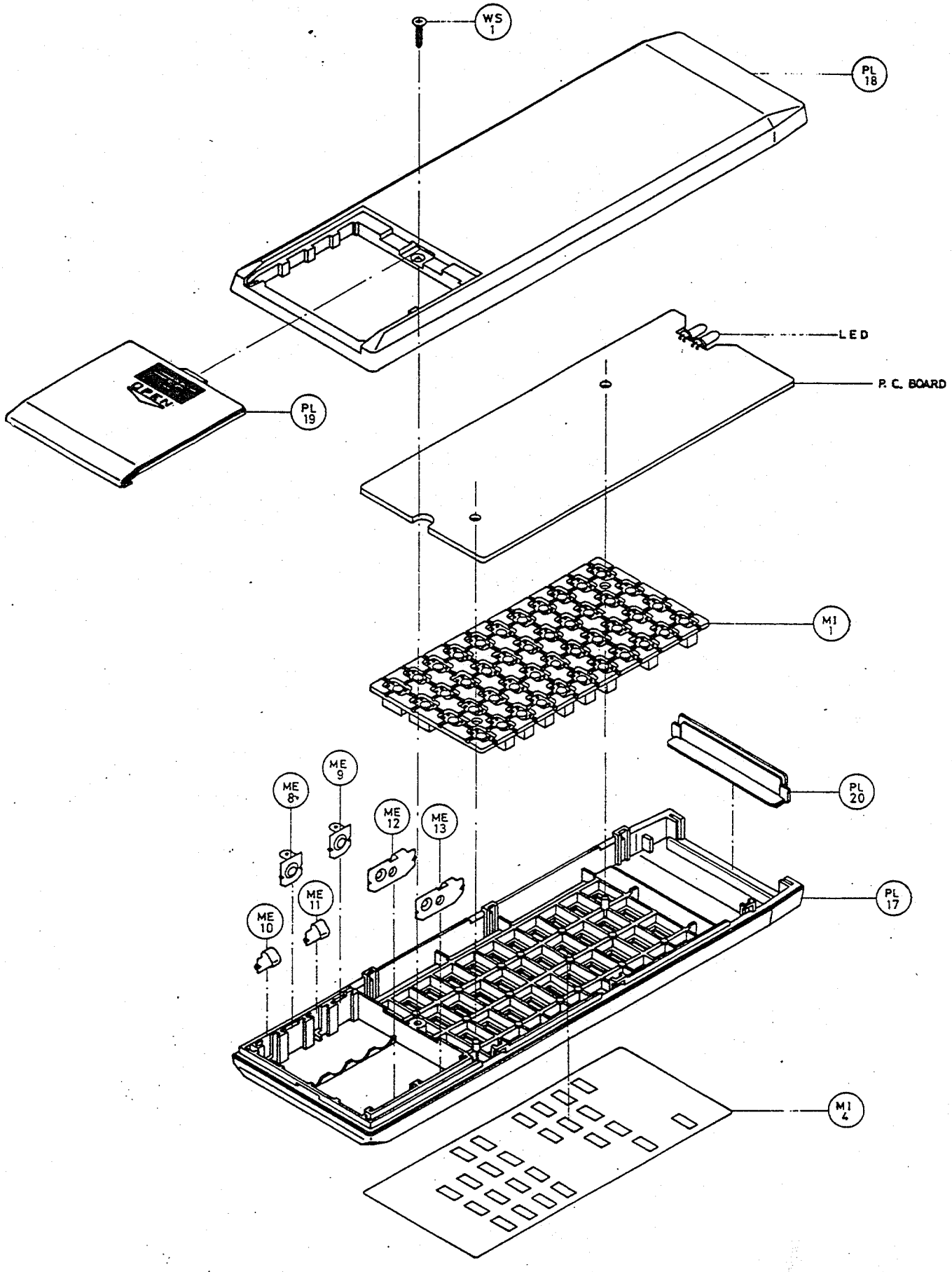
6700-451/1184


MODEL NO : CTV-2001VS
CTV-2101VS



MODEL : CTV-2101R
TITLE : .REMOTE CONTROL HANDSET

POSITION	SYM	BEZEICHNUNG	ET-NUMMER	ANZ
PL 1		GEHAEUSE-VORDERTEIL	728 550 5	001
PL 2		GEHAEUSE-RUECKTEIL	728 551 3	001
PL 5		BEDIENTEILKLAPPE	729 684 1	001
PL 6		KNOPFLEISTE (LS.-CH.)	729 064 6	001
PL 7		IR-FENSTER	728 945 7	001
PL 8		LAUTSPRECHERGITTER	728 555 4	001
PL 9		RAHMEN F. NETZSCHALTER	728 556 2	001
PL 10		KNOPF F. NETZSCHALTER	728 557 0	001

		IR-GEBER - VT (053.551 8)	729 687 4	001
PL 17		FB-OBERTEIL	728 946 5	001
PL 18		GEHAEUSE-UNTERTEIL F. GEBER	728 559 6	001
PL 19		BATTERIEFACHDECKEL F. GEBER	728 560 4	001
PL 20		IR-FENSTER F. GEBER	728 561 2	001

ME 1		LAUTSPRECHERGITTER LINKS	728 562 0	001
ME 2		LAUTSPRECHERGITTER RECHTS	728 567 9	001
MI 2		BUCHSEN-PLATTE	728 947 3	001

C 109,110		KONDENSATOR 2,2 NF 1 KV	927 456 4	002
C 116		KONDENSATOR 1 NF 2 KV	959 412 8	001
C 118		KONDENSATOR 1000 PF 4 KV	728 515 8	001
C 119		KONDENSATOR 470 PF 2 KV	725 445 1	001
C 121		KONDENSATOR 180 PF 2 KV	926 916 8	001
C 301		KONDENSATOR 1 NF 2 KV	959 412 8	001
C 302		KONDENSATOR 6,8 NF 2000 V	956 454 3	001
C 303	A	KONDENSATOR 820 PF 2 KV	321 919 3	001
C 304		KONDENSATOR 470 PF 2 KV	725 445 1	001
C 305		KONDENSATOR 680 PF 1 KV	728 098 5	001
C 306		KONDENSATOR 1000 PF 1000 V	958 990 4	001
C 652		KONDENSATOR 1 NF 2 KV	959 412 8	001

D 1		LED,INFRAROT,EL-1L1	740 688 7	001
D 101-103		DIODE 1 N 4003	176 413 3	003
D 104		BRUECKENGLEICHRICHTER RB 156	726 009 4	001
D 105,106		DIODE EU1Z	728 516 6	002
D 107		DIODE RU1P	728 517 4	001
D 108		DIODE EU1Z	728 516 6	001
D 109,110		DIODE RU 2	928 861 4	002
D 111		DIODE CNX82A	728 518 2	001
D 112		DIODE R2M	728 426 8	001
D 202-208		DIODE 1 N 4148	175 540 4	006
D 211		ZENER-DIODE UPC 574 J	950 546 2	001
D 212		ZENERDIODE MA 1180	923 077 2	001
D 114		DIODE 1 N 4003	176 413 3	001
D 221,222		DIODE RU 2	928 861 4	002
D 223-225		DIODE FR 105	728 073 8	003
D 341		ZENERDIODE BZX 79 C 10	176 841 5	001
D 342-345		DIODE 1 N 4148	175 540 4	003
D 404-450		DIODE 1 N 4148	175 540 4	012
D 451		LEUCHTDIODE LN 21 RCPH	728 074 6	001
D 501		DIODE 1 N 4003	176 413 3	001
D 601-603		DIODE 1 N 4148	175 540 4	003
D 901,902		DIODE 1 N 4148	175 540 4	002

EM 1		KERAMIKFILTER CSB 455 E	728 127 2	001
EM 101		ENTMAGNETISIERUNGSSPULE	728 542 2	001
EM 102		NETZKABEL MIT STOERSCHUTZDROSSEL	728 113 2	001
EM 103		NETZEINGANGSDROSSEL	728 942 4	001
EM 104		STAND-BY TRANSFORMATOR	729 586 8	001
EM 105		WANDLERTRAFO (NETZTRAFO)	728 929 1	001
EM 107		PTC-WIDERSTAND	728 545 5	001
EM 201		KABELTUNER	728 546 3	001
EM 202		ZEILEN-TREIBER-TRAFO	728 114 0	001
EM 205		ZEILENTRANSFORMATOR	729 588 4	001
EM 341		QUARZ 8,867238 MHZ	728 128 0	001
EM 342		PAL-VERZOEGERUNGSLEITUNG	728 119 9	001
EM 343		Y-VERZOEGERUNGSLEITUNG	728 118 1	001
EM 401		QUARZ 10.0 MHZ	722 890 1	001
EM 502		QUARZ 13,875 MHZ	725 702 5	001
EM 601		BILDR. 5130 B 22	728 549 7	001

FI 201		OFW-FILTER HW 2221	728 099 3	001
FI 202		KERAMIKFILTER SFE 5,5 MB	959 081 1	001
FI 204		KERAMIKFILTER TPS 5,5 MB	725 013 7	001

IC 1		IC SAA 3010 T	728 915 0	001
IC 101		IC MC 7805 CT	955 970 9	001
IC 102		IC STR 54041 M	727 440 0	001
IC 201		IC TDA 4505E	728 082 9	001

POSITION	SYM	BEZEICHNUNG	ET-NUMMER	ANZ
L 211,212		LINERITAETSSPULE	728 521 6	002
PB 101		NETZTEIL	728 534 9	001
PB 202		HAUPTCHASSIS	728 564 6	001
PB 701		IR-GEBER CTV 2101	728 537 2	001
PB 801		IR-EMPFAENGER	728 538 0	001
PB 802		ANZEIGEPLATINE	728 539 8	001
PB 803		TASTENPLATTE	728 540 6	001
Q 101		TRANSISTOR 2 SC 16850	924 671 1	001
Q 102		TRANSISTOR 8050C	967 106 6	001
Q 103,104		TRANSISTOR 8550C	967 107 4	002
Q 201		TRANSISTOR BF 370	728 077 9	001
Q 203		TRANSISTOR 2 SC 16850	924 671 1	001
Q 204		TRANSISTOR 2 SC 1573 A P/Q/R	726 978 0	001
Q 205		TRANSISTOR 2 SD 1555	728 139 7	001
Q 206		TRANSISTOR 2 SC 1573 A P/Q/R	726 978 0	001
Q 207		TRANSISTOR 2 SA 940	728 138 9	001
Q 208		TRANSISTOR 2 SC 2073 L	955 223 3	001
Q 209		TRANSISTOR 2 SC 16850	924 671 1	001
Q 210-212		TRANSISTOR 2 SA 720-Q	953 159 1	003
Q 213		TRANSISTOR 2 SC 16850	924 671 1	001
Q 214		TRANSISTOR 2 SA 720-Q	953 159 1	001
Q 215,216		TRANSISTOR 2 SC 16850	924 671 1	002
Q 601-603		TRANSISTOR BF 869	957 394 0	003
Q 701		TRANSISTOR 2 SC 16850	924 671 1	001
Q 901-903		TRANSISTOR 2 SA 720-Q	953 159 1	003
Q 904-906		TRANSISTOR 2 SC 16850	924 671 1	003
R 122		SICH. WIDERSTAND 1 OHM 1W	728 514 1	001
R 216		WIDERSTAND 2,2 OHM 1,00 W SI	997 623 4	001
R 218		SICH. WIDERSTAND 1 OHM 1W	728 514 1	001
SK 601		BILDR.-SOCKEL	728 553 9	001
SP 1		LAUTSPRECHER 8 OHM 2W	728 536 4	001
SW 101		NETZSCHALTER	728 529 9	001
SW 201		HEBELSCHALTER	728 530 7	001
SW 801-808		TASTSCHALTER	728 531 5	008
SW 821-824		TASTER MIT ERDUNGSPOT.	728 532 3	004
T 201		5,5 MHZ ABSTIMMSPULE	728 522 4	001
T 202		ABSTIMMKREIS 36,5-51 MHZ	728 523 2	001
T 791		ZF-FILTER 32 MHZ	728 364 1	001
T 792		ZF-FILTER 40 MHZ	728 365 8	001
VR 201,202		TRIMMPOTENTIOMETER 50 KOHM	728 111 6	002
VR 203		TRIMMPOTENTIOMETER 10 KOHM	728 108 2	001
VR 204		TRIMMPOTENTIOMETER 2 KOHM	728 533 1	001
VR 205		TRIMMPOTENTIOMETER 500 OHM	728 110 8	001
VR 207-209		POTENTIOMETER 10 KOHM	728 103 3	003
VR 601-605		TRIMMPOTENTI	728 105 8	005
		TEILE AUF PAL-SECAM MODUL:		
		PAL / SECAM MODUL	728 547 1	001
EM 201		Y-VERZOEGERUNGSLEITUNG	728 118 1	001
EM 202		PAL-VERZOEGERUNGSLEITUNG	728 119 9	001
EM 203		QUARZ 8,867238 MHZ	728 128 0	001
IC 201		IC TDA 4555	725 186 1	001
IC 202		IC TDA 3505	957 764 4	001
Q 251,252		TRANSISTOR BC 546 B ERSETZT ET-NR. 927 111 5	923 701 7	002

ACHTUNG: SERVICE-UNTERLAGEN

ENTNEHMEN SIE BITTE DER

BESTELLNUMMER 027.593 0

ENDE

POSITION	SYM	BEZEICHNUNG	ET-NUMMER	ANZ
PL 1		GEHAEUSE-VORDERTEIL	728 565 3	001
PL 2		GEHAEUSE-RUECKTEIL	728 551 3	001
PL 5		BEDIENTEILKLAPPE	728 566 1	001
PL 7		IR-FENSTER	728 568 7	001
PL 8,9		LAUTSPRECHERGITTER	728 569 5	002
PL 10		RAHMEN F. NETZSCHALTER	728 570 3	001
PL 11		KNOPF F. NETZSCHALTER	728 571 1	001
ME 1		LAUTSPRECHERGITTER LINKS	728 562 0	001
ME 2		LAUTSPRECHERGITTER RECHTS	728 567 9	001
MI 2		BUCHSENPLATTE	728 563 8	001

		IR-GEBER CTV 2101	728 537 2	001
PL 17		GEHAEUSE-OBERTEIL F. GEBER	728 558 8	001
PL 18		GEHAEUSE-UNTERTEIL F. GEBER	728 559 6	001
PL 19		BATTERIEFACHDECKEL F. GEBER	728 560 4	001
PL 20		IR-FENSTER F. GEBER	728 561 2	001

C 109,110		KONDENSATOR 2,2 NF 1 KV	927 456 4	002
C 116		KONDENSATOR 1 NF 2 KV	959 412 8	001
C 118		KONDENSATOR 1000 PF 4 KV	728 515 8	001
C 119,203		KONDENSATOR 470 PF 2 KV	725 445 1	002
C 205		KONDENSATOR 1 NF 2 KV	959 412 8	001
C 209		KONDENSATOR 6,8 NF 2000 V	956 454 3	001
C 212		KONDENSATOR 1000 PF 1000 V	958 990 4	001
C 651		KONDENSATOR 1 NF 2 KV	959 412 8	001

D 103		DIODE 1 N 4003	176 413 3	001
D 104		BRUECKENGLEICHRICHTER RB 156	726 009 4	001
D 105,106		DIODE EU1Z	728 516 6	002
D 107		DIODE RU1P	728 517 4	001
D 108		DIODE EU1Z	728 516 6	001
D 109,110		DIODE RU 2	928 861 4	002
D 111		DIODE CNX82A	728 518 2	001
D 112		DIODE R2M	728 426 8	001
D 201,202		DIODE 1 N 4148	175 540 4	002
D 203		DIODE FR 105	728 073 8	001
D 204,205		DIODE 1 N 4148	175 540 4	002
D 206,207		DIODE FR 105	728 073 8	002
D 210		ZENERDIODE MA 1180	923 077 2	001
D 211		ZENER-DIODE UPC 574 J	950 546 2	001
D 212-222		DIODE 1 N 4148	175 540 4	010
D 701		LED,INFRAROT,EL-1L1	740 688 7	001
D 801,802		LEUCHTDIODE LN 21 RCPH	728 074 6	002

EM 101		ENTMAGNETISIERUNGSSPULE	728 542 2	001
EM 102		NETZKABEL MIT STOERSCHUTZDROSSEL	728 113 2	001
EM 103		ENTSTOERDROSSEL	728 124 9	001
EM 105		WANDLERTRAFO (NETZTRAFO)	728 544 8	001
EM 107		PTC-WIDERSTAND	728 545 5	001
EM 201		KABELTUNER	728 546 3	001
EM 202		PAL / SECAM MODUL	728 547 1	001
EM 204		ZEILEN-TREIBER-TRAFO	728 114 0	001
EM 207		ZEILENTRANSFORMATOR	728 519 0	001
EM 209		QUARZ 4,000 MHZ	727 288 3	001
EM 601		BILDR. A51 JAR 90X05	728 520 8	001
EM 801		IR-VORVERSTAERKER	728 353 4	001

FI 201		OFW-FILTER HW 2221	728 099 3	001
FI 202		KERAMIKFILTER SFE 5,5 MB	959 081 1	001
FI 203		KERAMIKFILTER TPS 5,5 MB	725 913 7	001

IC 101		IC MC 7805 CT	955 970 9	001
IC 102		IC STR 54041 M	727 440 0	001
IC 201		IC TDA 4505E	728 082 9	001
IC 203		IC CTS-130 CBM	728 524 0	001
IC 204		IC TMM 843AP	728 525 7	001
IC 205		IC TC 9020P-003 OSD-IC	728 526 5	001
IC 206		IC UA 78 12 UC	949 564 9	001
IC 207		IC TDA 1013B	728 527 3	001
IC 701		IC TC 9012F-011	728 528 1	001
		IC LA 7830	959 671 9	001

POSITION	SYM	BEZEICHNUNG	ET-NUMMER	ANZ
IC 202		IC UA 78 12 UC	949 564 9	001
IC 203		IC TDA 1013B	728 527 3	001
IC 204		IC HEF 4053 BP	728 916 8	001
IC 341		IC TDA 4555	725 186 1	001
IC 342		IC TDA 3505	957 764 4	001
IC 401		IC PCA 84C640-019 B	728 917 6	001
IC 402		IC PCF 8582 AP	729 024 0	001
IC 403		IC PC 74 HC 241	729 589 2	001
IC 501		IC SAA5231	723 386 9	001
IC 502		IC SAA 5243 P/E	727 548 0	001
IC 503		IC FCB 61 C 65-70P (RAM)	729 590 0	001

L 201		SPULE 1 UH	728 358 3	001
L 202		SPULE 10 UH	728 368 2	001
L 210		SPULE 6,8 UH	728 359 1	001
L 213		SPULE 15 UH	728 356 7	001
L 252		LINERITAETSSPULE	728 521 6	001
L 501		SPULE 15 UH	728 356 7	001
L 601		SPULE 150 UH	728 357 5	001

PB 1		IR-GEBER - VT (053.551 8)	729 687 4	001
PB 101		NETZTEIL-PLATINE	728 962 2	001
PB 201		HAUPTCHASSIS	728 963 0	001
PB 202		BEDIENTEIL	728 964 8	001
PB 203		BILDR.-PLATINE	729 592 6	001
PB 204		ANZEIGEPLATINE	728 966 3	001
PB 205		IR-EMPFAENGER	728 967 1	001
PB 501		TELETEXT-PLATINE	729 593 4	001

Q 1		TRANSISTOR 2 SC 828 R	175 783 0	001
Q 2		TRANSISTOR 2 SA 720-Q	953 159 1	001
Q 101		TRANSISTOR 2 SC 16850	924 671 1	001
Q 102-104		TRANSISTOR 8050 D	729 585 0	003
Q 201		TRANSISTOR BF 370	728 077 9	001
Q 202-204		TRANSISTOR 2 SA 720-Q	953 159 1	003
1Q 205-208		TRANSISTOR 2 SC 16850	924 671 1	003
Q 209,211		TRANSISTOR 2 SC 1573 A P/Q/R	726 978 0	002
Q 210		TRANSISTOR 2 SD 1555	728 139 7	001
Q 212		TRANSISTOR 2 SC 2073 L	955 223 3	001
Q 213		TRANSISTOR 2 SA 940	728 138 9	001
Q 221		TRANSISTOR 2 SC 16850	924 671 1	001
Q 222		TRANSISTOR 2 SA 720-Q	953 159 1	001
Q 224,225		TRANSISTOR 2 SC 16850	924 671 1	002
Q 341,342		TRANSISTOR IC 547 A	728 913 5	002
Q 343		TRANSISTOR 2 SC 16850	924 671 1	001
Q 401		TRANSISTOR 9018 F	728 914 3	001
Q 402-408		TRANSISTOR 2 SC 16850	924 671 1	005
Q 409		TRANSISTOR 2 SA 720-Q	953 159 1	001
Q 410		TRANSISTOR 2 SC 16850	924 671 1	001
Q 501,502		TRANSISTOR IC 547 A	728 913 5	002
Q 601-603		TRANSISTOR BF 869	957 394 0	003
Q 604-606		TRANSISTOR BF 423	953 235 9	003
Q 607		TRANSISTOR 2 SC 16850	924 671 1	001

R 122		WIDERSTAND 1,0 OHM 1,00 W SI	728 514 1	001
R 151		WIDERSTAND 3,9 OHM 5 WATT	959 462 3	001
R 315		WIDERSTAND 2,2 OHM 1,00 W SI	997 623 4	001

SK 601		BILDROEHRENSOCKEL	728 541 4	001

SP 1		LAUTSPRECHER 8 OHM 2W	728 536 4	001

SW 101		NETZSCHALTER	728 529 9	001
SW 201		HEBELSCHALTER	728 530 7	001
SW 400-403		TASTER MIT ERDUNGSPOT.	728 532 3	004
SW 410-417		TASTER MIT ERDUNGSPOT.	728 532 3	006

T 202		ABSTIMMKREIS 36,5-51 MHZ	728 523 2	001
T 204		ZF-FILTER 32 MHZ	728 364 1	001
T 205		ZF-FILTER 40 MHZ	728 365 8	001

VR 201		TRIMMPOTENTIOMETER 50 KOHM	728 111 6	001
VR 202		TRIMMPOTENTIOMETER 10 KOHM	728 108 2	001
VR 203		TRIMMPOTENTIOMETER 50 KOHM	728 111 6	001
VR 204		TRIMMPOTENTIOMETER 500 OHM	728 110 8	001
VR 341		TRIMMPOTENTIOMETER 200 OHM	728 921 8	001
VR 401		TRIMMPOTENTIOMETER 1 KOHM	728 107 4	001
VR 601,602		TRIMMPOTENTIOMETER 5 KOHM	728 106 6	002

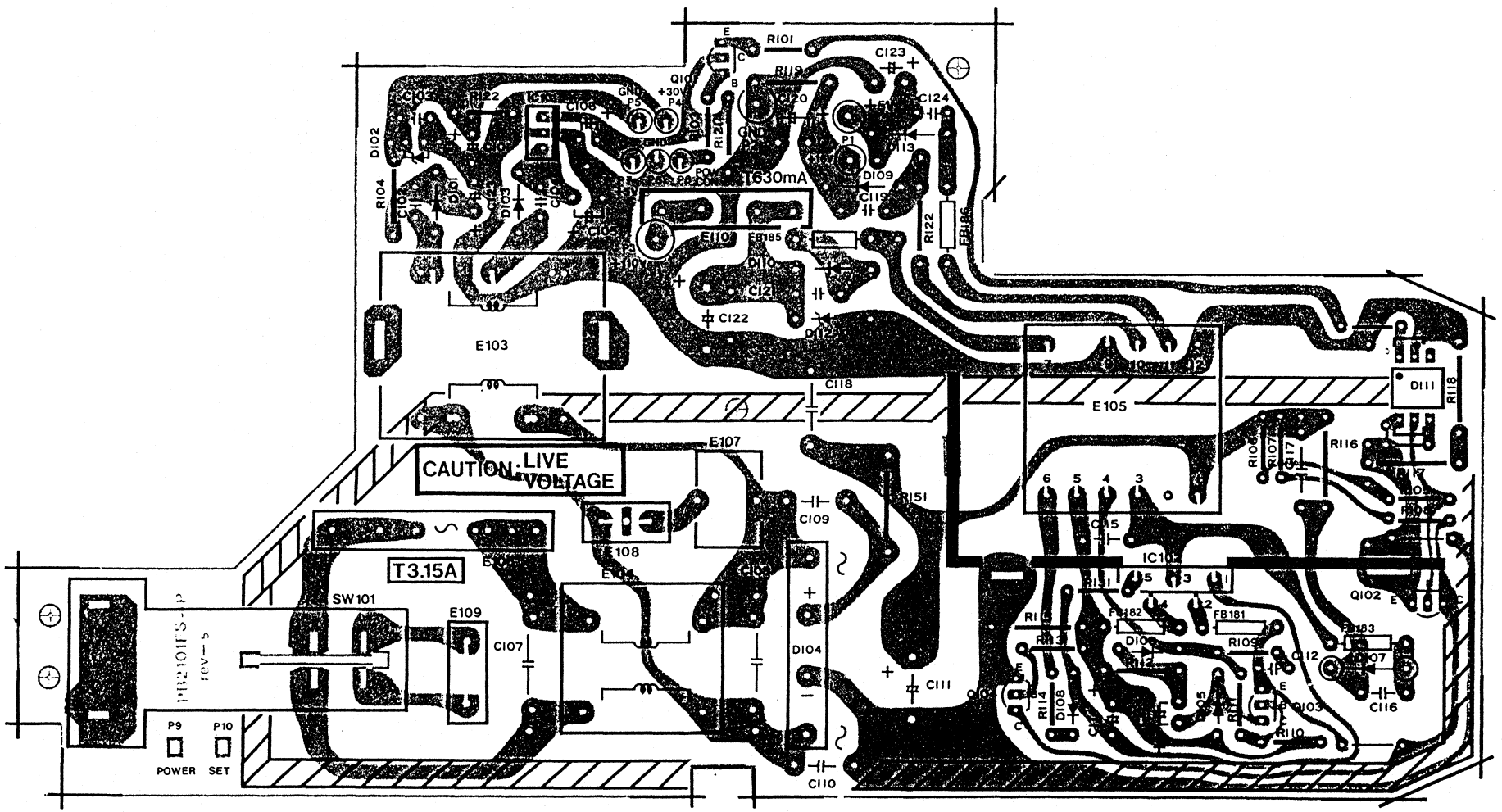
		IR-GEBER - VT (053.551 8)	729 687 4	001

ENDE

POSITION	SYM	BEZEICHNUNG	ET-NUMMER	ANZ
PL 1		GEHAEUSE-VORDERTEIL	728 550 5	001
PL 2		GEHAEUSE-RUECKTEIL	728 551 3	001
PL 5		BEDIENTEILKLAPPE	775 553 1	001
PL 6		IR-FENSTER	775 554 9	001
PL 7		LAUTSPRECHERGITTER (LINKS)	775 555 6	001
PL 8		LAUTSPRECHERGITTER (RECHTS)	775 556 4	001
PL 9		KNOPF F. NETZSCHALTER	775 557 2	001
PL 11-14		RUECKWANDBEFESTIGUNG	775 594 5	004
PL 15		FB-OBERTEIL	728 946 5	001
PL 16		GEHAEUSE-UNTERTEIL F. GEBER	728 559 6	001
PL 17		BATTERIEFACHDECKEL F. GEBER	728 560 4	001
PL 18		IR-FENSTER F. GEBER	728 561 2	001
MI 2		BUCHSEN-PLATTE	728 947 3	001

C 109,110		KONDENSATOR 2,2 NF 1 KV	927 456 4	002
C 116		KONDENSATOR 1 NF 2 KV	959 412 8	001
C 118		KONDENSATOR 1000 PF 4 KV	728 515 8	001
C 119,304		KONDENSATOR 470 PF 2 KV	725 445 1	002
C 121		KONDENSATOR 180 PF 2 KV	926 916 8	001
C 301		KONDENSATOR 1 NF 2 KV	959 412 8	001
C 302		KONDENSATOR 6,8 NF 2000 V	956 454 3	001
C 303	A	KONDENSATOR 820 PF 2 KV	321 919 3	001
C 305		KONDENSATOR 680 PF 1 KV	728 098 5	001
C 306		KONDENSATOR 1000 PF 1000 V	958 990 4	001
C 651		KONDENSATOR 1 NF 2 KV	959 412 8	001
D 1		LED,INFRAROT,EL-1L1	740 688 7	001
D 103		DIODE 1 N 4003	176 413 3	001
D 104		BRUECKENGLEICHRICHTER RB 156	726 009 4	001
D 105,106		DIODE EU1Z	728 516 6	002
D 107		DIODE RU1P	728 517 4	001
D 108		DIODE EU1Z	728 516 6	001
D 109,110		DIODE RU 2	928 861 4	002
D 111		DIODE CNX82A	728 518 2	001
D 112		DIODE R2M	728 426 8	001
D 201-208		DIODE 1 N 4148	175 540 4	006
D 212		ZENERDIODE MA 1180	923 077 2	001
D 213		DIODE 1 N 4148	175 540 4	001
D 221,222		DIODE RU 2	928 861 4	002
D 223-225		DIODE FR 105	728 073 8	003
D 341		ZENERDIODE BZX 79 C 10	176 841 5	001
D 342		DIODE 1 N 4148	175 540 4	001
D 410-430		DIODE 1 N 4148	175 540 4	008
D 451		LEUCHTDIODE LN 21 RCPH	728 074 6	001
D 710,711		DIODE 1 N 4148	175 540 4	002
D 901,902		DIODE 1 N 4148	175 540 4	002
EM 1		KERAMIKFILTER CSB 455 E	728 127 2	001
EM 101		ENTMAGNETISIERUNGSSPULE	728 542 2	001
EM 102		NETZKABEL MIT STOERSCHUTZDROSSEL	728 113 2	001
EM 103		TRAFO FUER STANDBY	728 928 3	001
EM 104		NETZEINGANGSDROSSEL	728 942 4	001
EM 105		WANDLERTRAFO (NETZTRAFO)	728 929 1	001
EM 107		PTC-WIDERSTAND	728 545 5	001
EM 181,183		SPULE 3,5X10X1,3 H	775 598 6	002
EM 185		SPULE 3,5X10X1,3 H	775 598 6	001
EM 201		KABELTUNER	728 546 3	001
EM 202		ZEILENTREIBERTRAFO	775 558 0	001
EM 203,204		SPULE 3,5X10X1,3 H	775 598 6	002
EM 205		ZEILENTRANSFORMATOR	729 588 4	001
EM 401		QUARZ 10.000MHZ	724 387 6	001
EM 402		IR-VORVERSTAERKER	775 615 8	001
EM 601		BILDR. 51 GGD 95 X TC	775 547 3	001
EM 710		PAL-VERZOEGERUNGSLEITUNG	775 614 1	001
EM 711		Y-VERZOEGERUNGSLEITUNG	728 118 1	001
EM 712		QUARZ 8,867238 MHZ	728 128 0	001
FI 201		OFW-FILTER HW 2221	728 099 3	001
FI 202		KERAMIKFILTER SFE 5,5 MB	959 081 1	001
FI 204		KERAMIKFILTER TPS 5,5 MB	725 013 7	001

POSITION	SYM	BEZEICHNUNG	ET-NUMMER	ANZ
IC 1		IC SAA 3010 T	728 915 0	001
IC 101		IC MC 7805 CT ERSETZT ET-NR. 955 970 9	722 651 7	001
IC 102		IC STR 54041 M	727 440 0	001
IC 201		IC TDA 4505E	728 082 9	001
IC 202		IC UA 78 12 UC	949 564 9	001
IC 203		IC TDA 1013B	728 527 3	001
IC 204		IC HEF 4053 BP	728 916 8	001
IC 401		IC PCA 84 C 440 P-401	729 591 8	001
IC 402		IC PCF 8581 P	728 918 4	001
IC 710		IC TDA 3561 A	775 559 8	001
L 201		SPULE 1 UH	728 358 3	001
L 202		SPULE 10 UH	728 368 2	001
L 210		SPULE 6,8 UH	728 359 1	001
L 211,213		SPULE 15 UH	728 356 7	002
L 251		SPULE 150 UH	775 550 7	001
L 252		LINERITAETSSPULE	728 521 6	001
L 601		SPULE 100 UH	775 548 1	001
L 710,711		SPULE 8,2 UH	775 549 9	002
PB 1		IR-GEBER	728 922 6	001
PB 101	1	NETZTEIL-PLATINE	728 962 2	001
PB 201		HAUPTCHASSIS (FT 1002A.02)	775 551 5	001
PB 202		BEDIENTEIL	728 964 8	001
PB 203		BILDROEHRENPLATTE 20"	775 560 6	001
PB 204		ANZEIGEPLATINE	728 966 3	001
PB 205		IR-EMPFAENGER	728 967 1	001
Q 1		TRANSISTOR 2 SC 828 R	175 783 0	001
Q 2		TRANSISTOR 2 SA 720-Q	953 159 1	001
Q 101		TRANSISTOR 2 SC 16850	924 671 1	001
Q 102-104		TRANSISTOR 8050 D	729 585 0	003
Q 201		TRANSISTOR BF 370	728 077 9	001
Q 202-204		TRANSISTOR 2 SA 720-Q	953 159 1	003
Q 205-208		TRANSISTOR 2 SC 16850	924 671 1	003
Q 209		TRANSISTOR 2 SC 1573 A P/Q/R	726 978 0	001
Q 210		TRANSISTOR 2 SD 1555	728 139 7	001
Q 211		TRANSISTOR 2 SC 1573 A P/Q/R	726 978 0	001
Q 212		TRANSISTOR 2 SC 2073 L	955 223 3	001
Q 213		TRANSISTOR 2 SA 940	728 138 9	001
Q 221-225		TRANSISTOR 2 SC 16850	924 671 1	003
Q 343		TRANSISTOR 2 SC 16850	924 671 1	001
Q 401		TRANSISTOR 9018 F	728 914 3	001
Q 402-410		TRANSISTOR 2 SC 16850	924 671 1	006
Q 601-603		TRANSISTOR BF 869	957 394 0	003
Q 604		TRANSISTOR 8550D	748 975 0	001
R 122		WIDERSTAND 1,0 OHM 1,00 W SI	728 514 1	001
R 151		WIDERSTAND 3,9 OHM 5 WATT	959 462 3	001
R 315		WIDERSTAND 2,2 OHM 1,00 W SI	997 623 4	001
SK 601		BILDROEHRENSOCKEL	728 541 4	001
SW 101		NETZSCHALTER	728 529 9	001
SW 201		HEBELSCHALTER	728 530 7	001
SW 400-403		TASTER MIT ERDUNGSPOT.	728 532 3	004
SW 410-422		TASTER MIT ERDUNGSPOT.	728 532 3	007
T 201		5,5 MHZ ABSTIMMSPULE	728 522 4	001
T 202		ABSTIMMKREIS 36,5-51 MHZ	728 523 2	001
T 204		ZF-FILTER 32 MHZ	728 364 1	001
T 205		ZF-FILTER 40 MHZ	728 365 8	001
T 710		ABSTIMMSPULE 8 UH	775 552 3	001
VR 201		TRIMMPOTENTIOMETER 50 KOHM	728 111 6	001
VR 202		TRIMMPOTENTIOMETER 10 KOHM	728 108 2	001
VR 203		TRIMMPOTENTIOMETER 50 KOHM	728 111 6	001
VR 204		TRIMMPOTENTIOMETER 500 OHM	728 110 8	001
VR 401		TRIMMPOTENTIOMETER 1 KOHM	728 107 4	001
VR 601-605		TRIMMPOTENTIOMETER 2 KOHM	728 105 8	001
VR 710		TRIMMPOTENTIOMETER 1 KOHM	728 107 4	001
		IR-GEBER	728 922 6	001


CAUTION·LIVE VOLTAGE
T630mA
T3.15A
SW101
POWER
SET
P9
P10
E103
E105
E107
E108
E109
IC101
Q101
Q102
Q103
D111
R101
R122
R104
R151
C123
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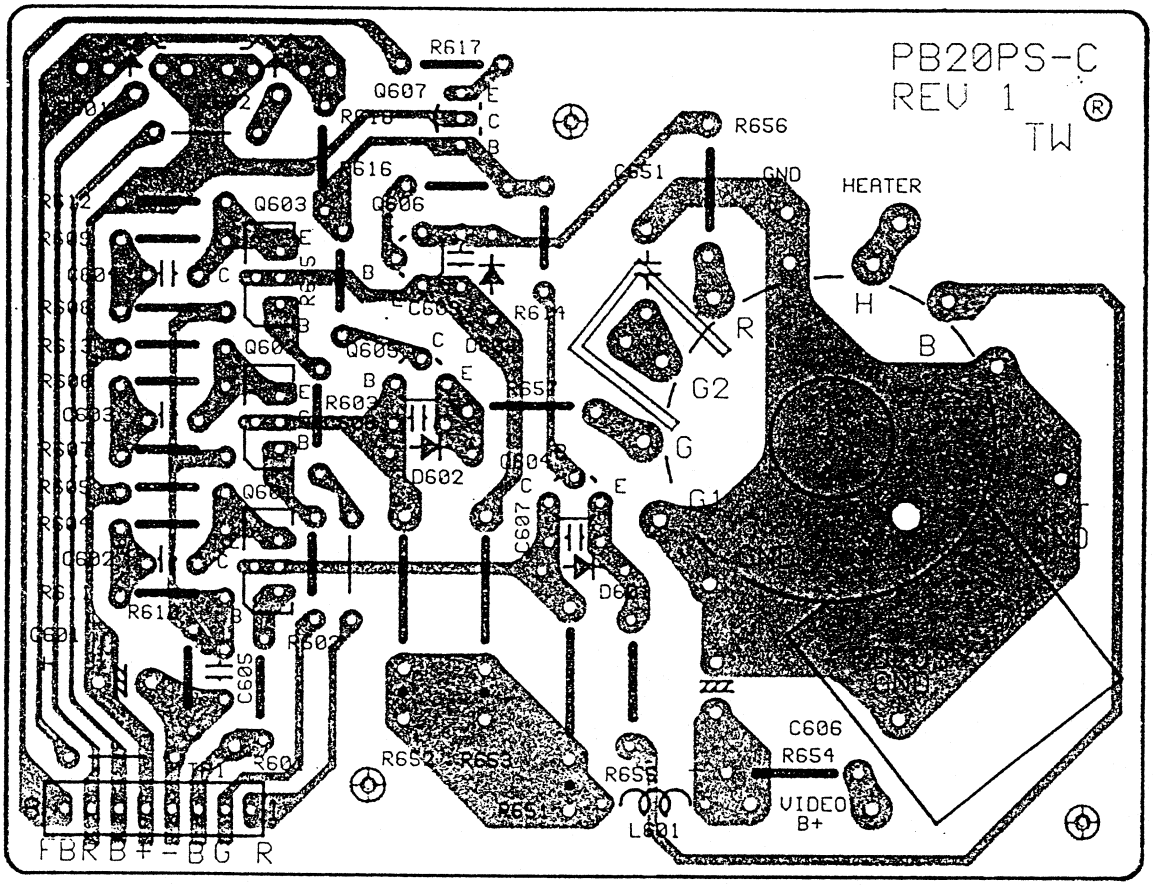
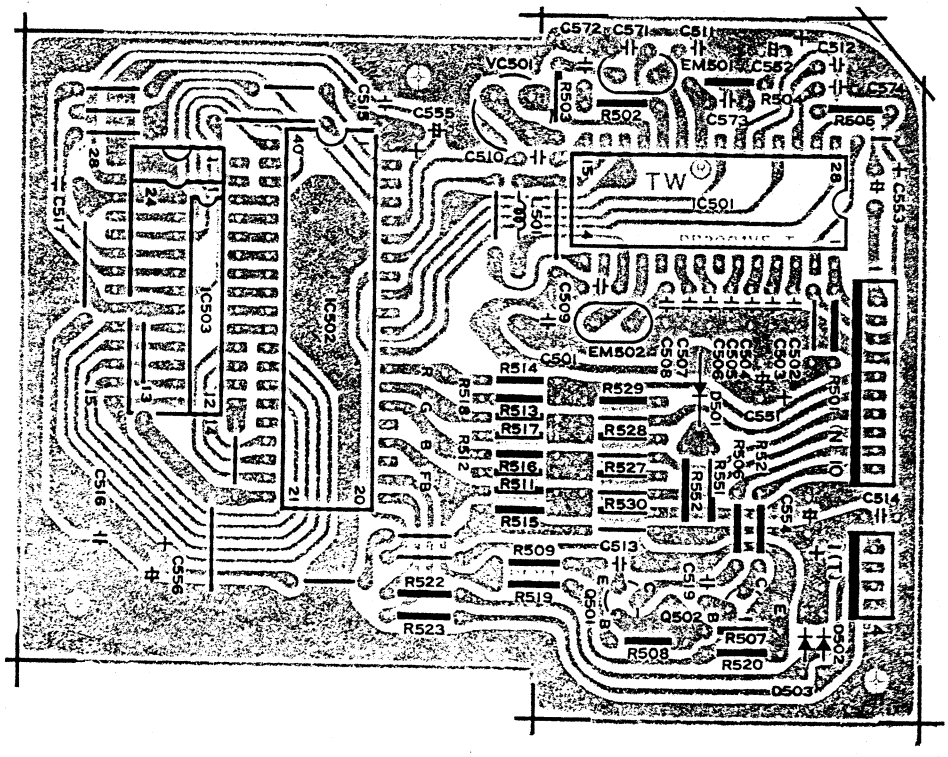
FB185
FB182
FB181
FB183


PB20PS-C
REV 1
TW
R617
Q607
R656
C651
GND
HEATER
Q603
Q606
Q605
R603
D602
C607
G2
G
G1
H
R
B
C606
R654
VIDEO
B+
L601
R652
R653
R655
C605
R601
R602
C601
TP1
FBRB+-BG R


TW
IC501
IC502
IC503
EM501
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VC501
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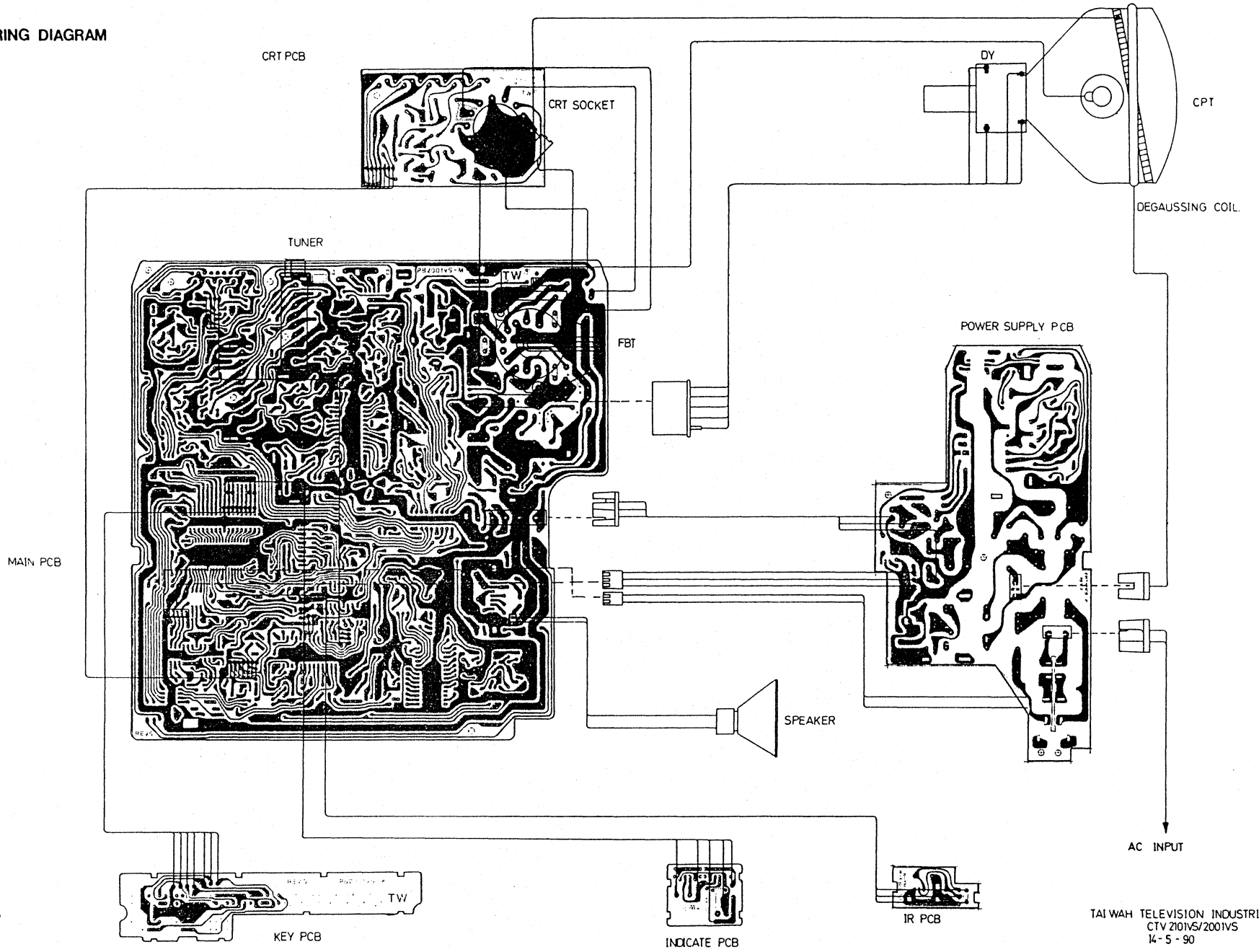
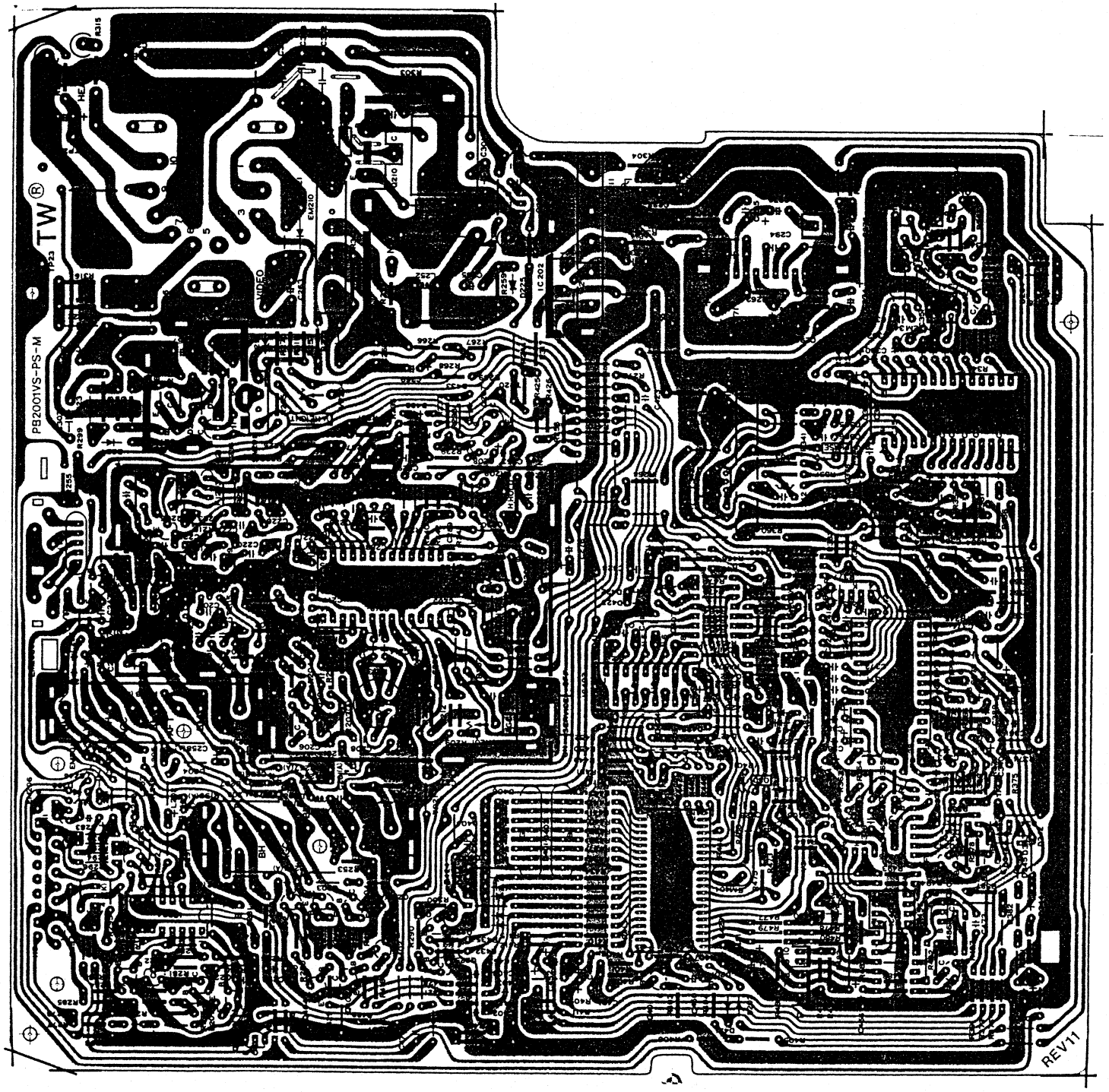
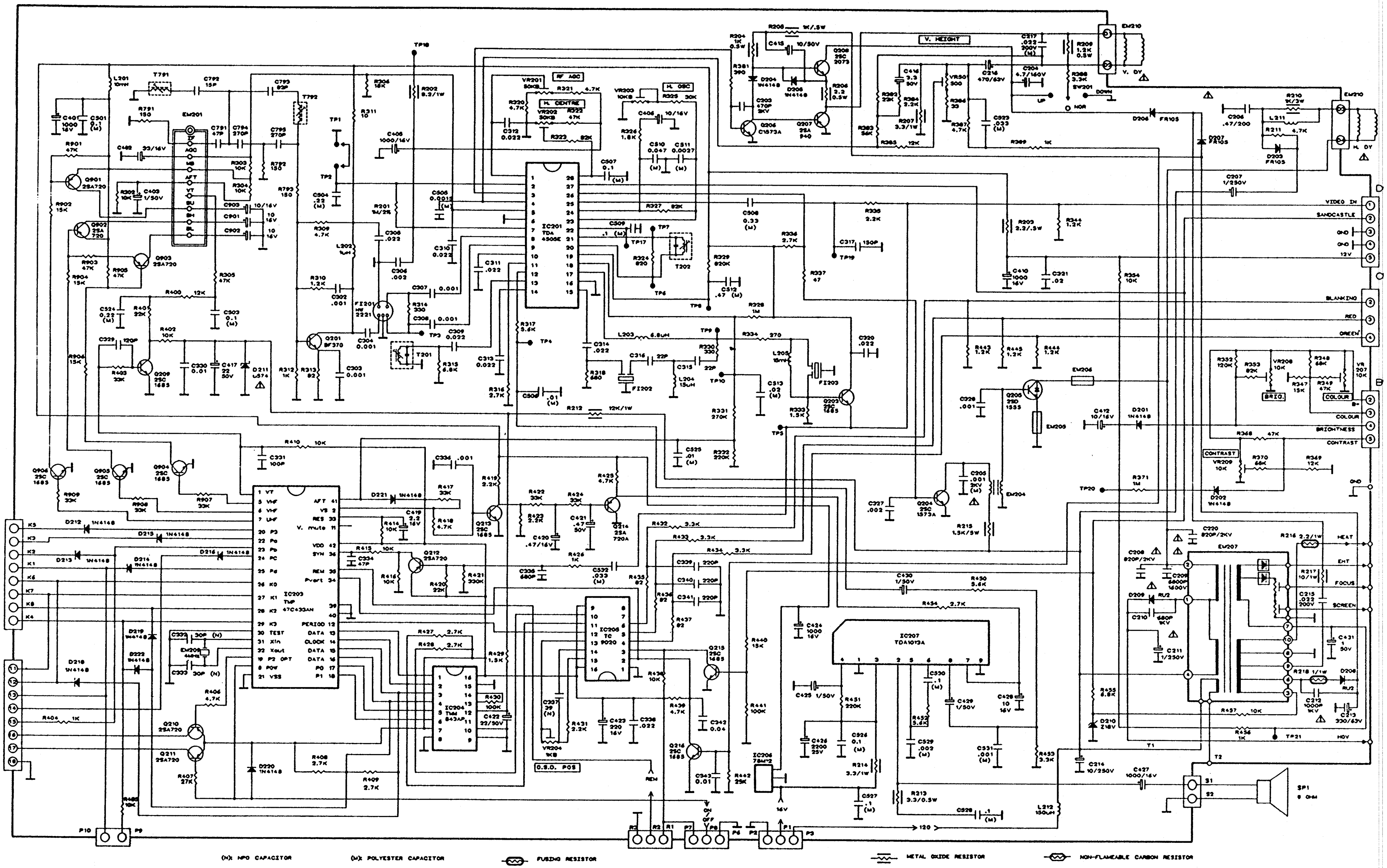
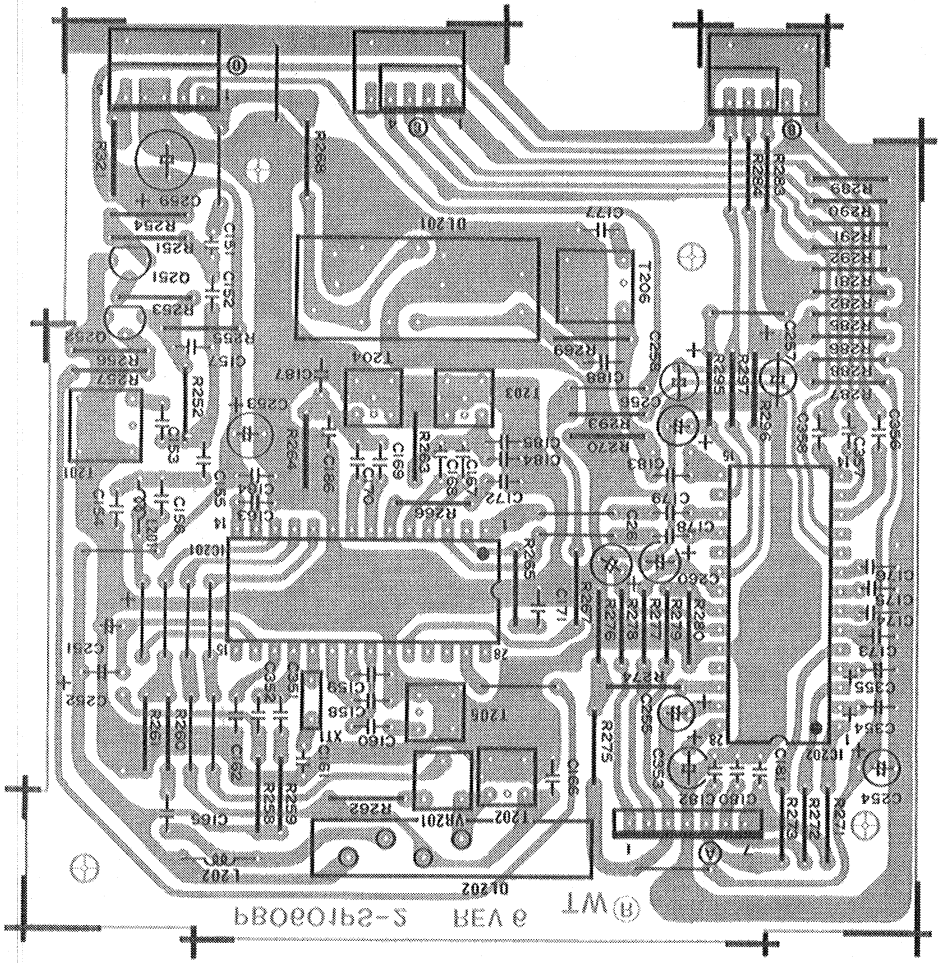
C574

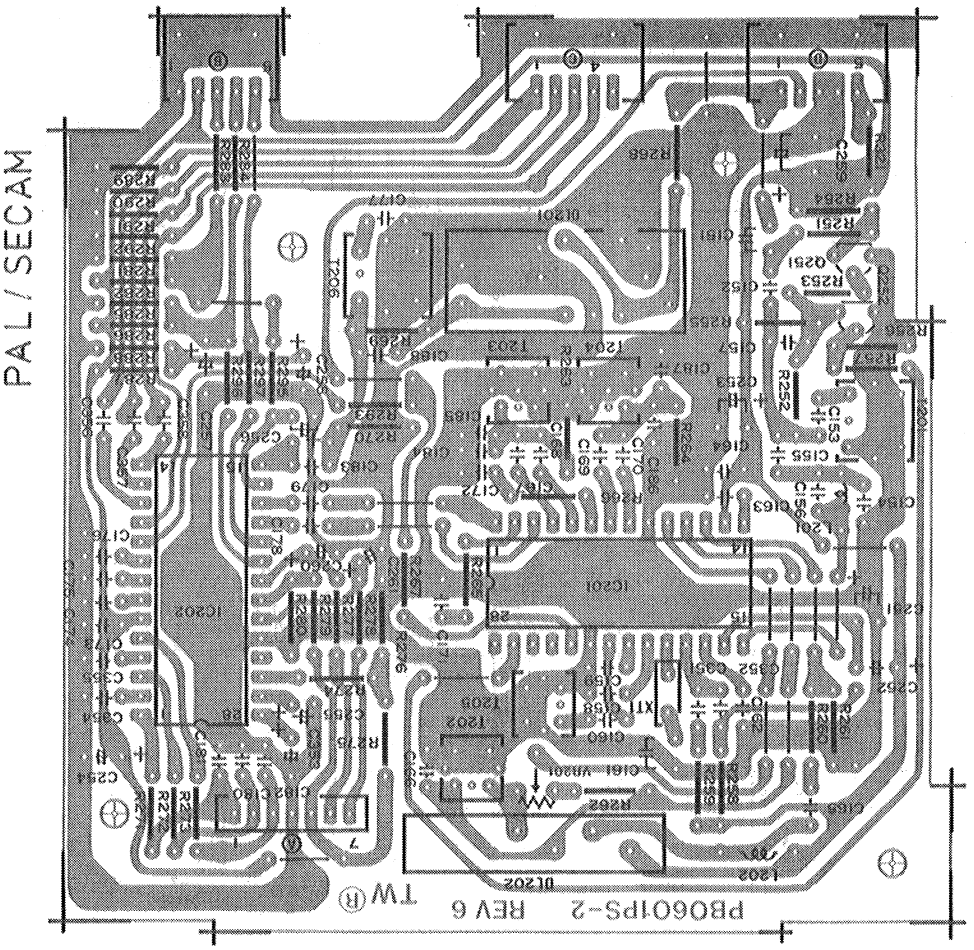
WIRING DIAGRAM



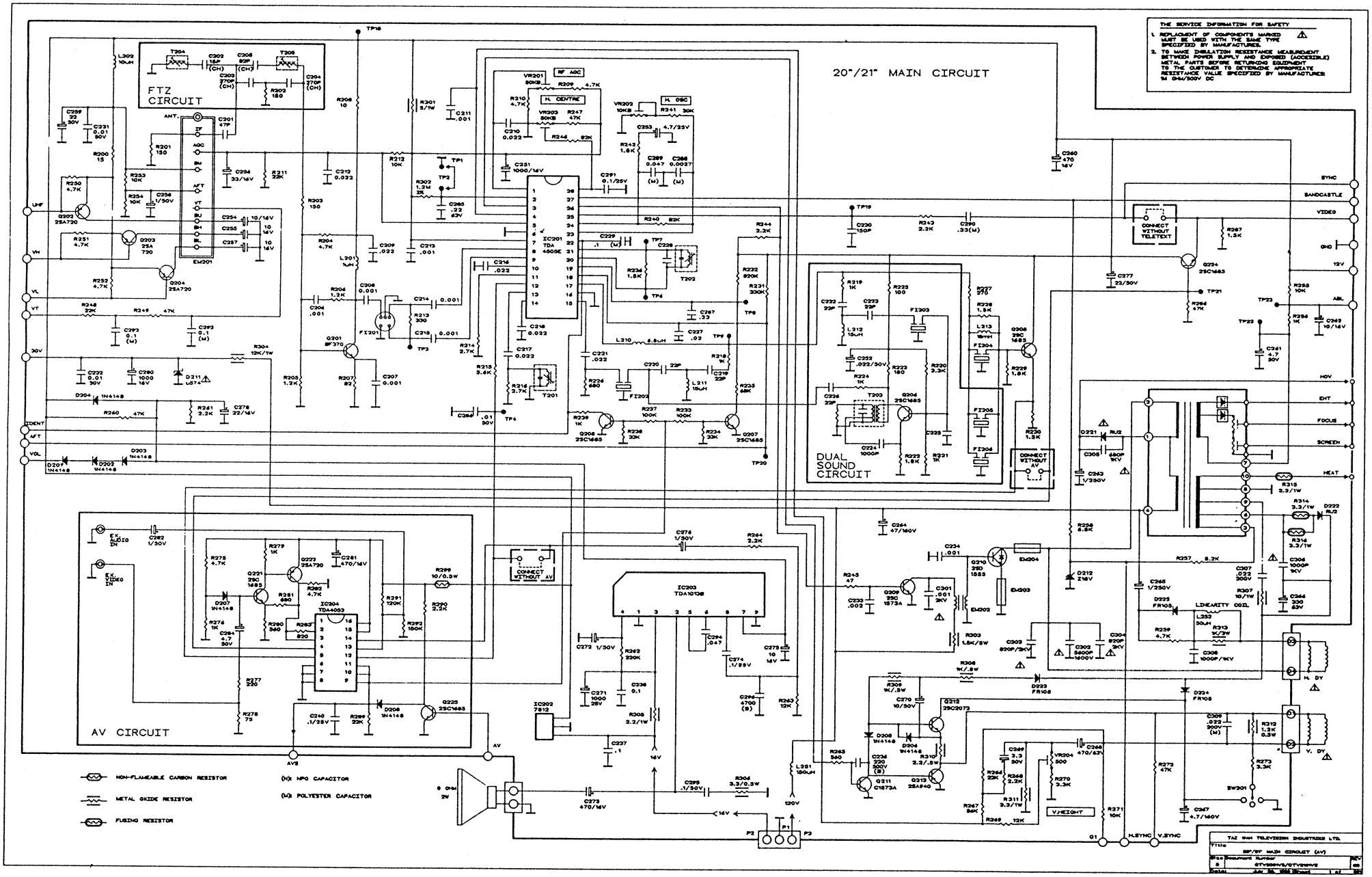

TW®
PB2001VS-PS-M
VIDEO
REV11

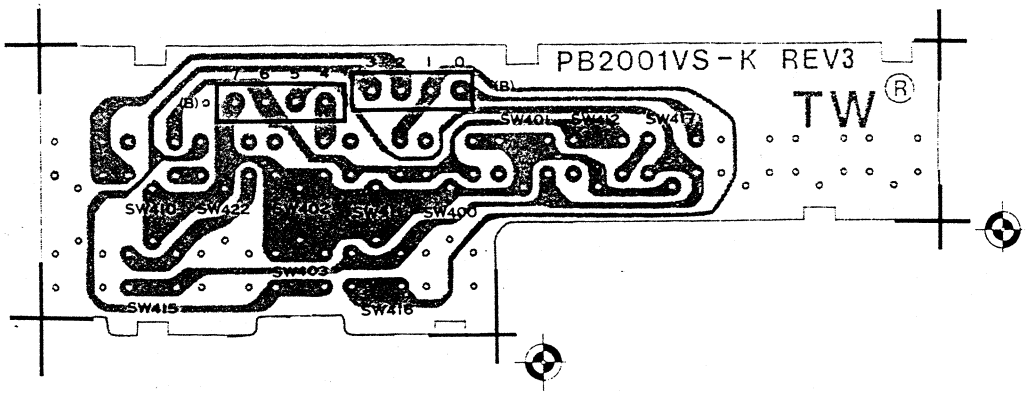

(N): NPO CAPACITOR
(M): POLYESTER CAPACITOR
FUSING RESISTOR
METAL OXIDE RESISTOR
NON-FLAMEABLE CARBON RESISTOR

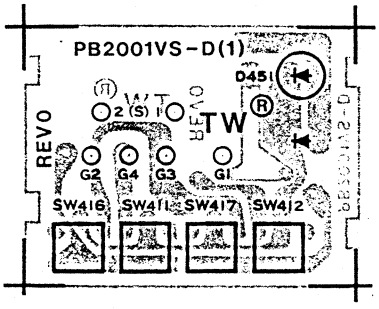



PAL / SECAM

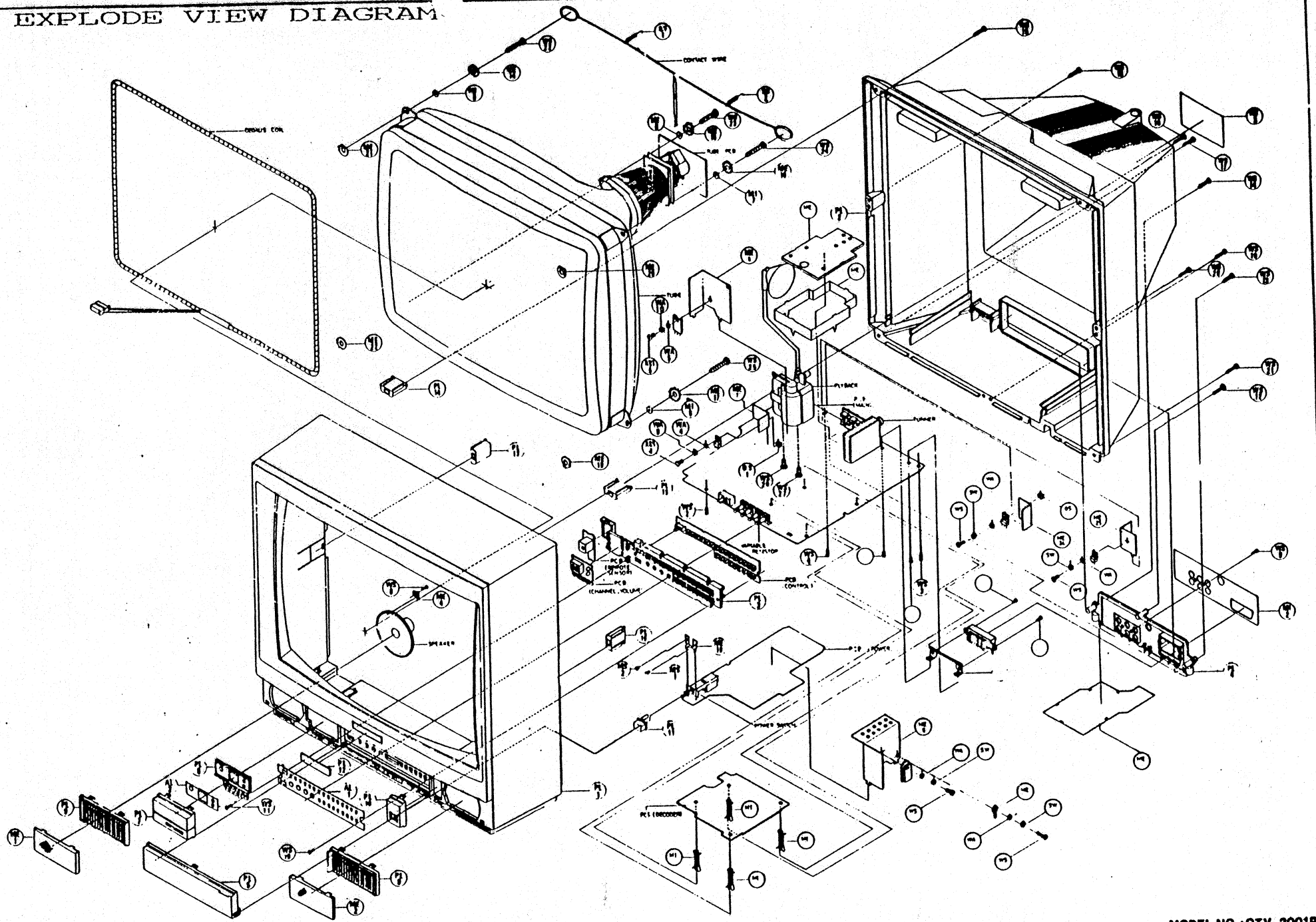
SCHEMATIC DIAGRAM



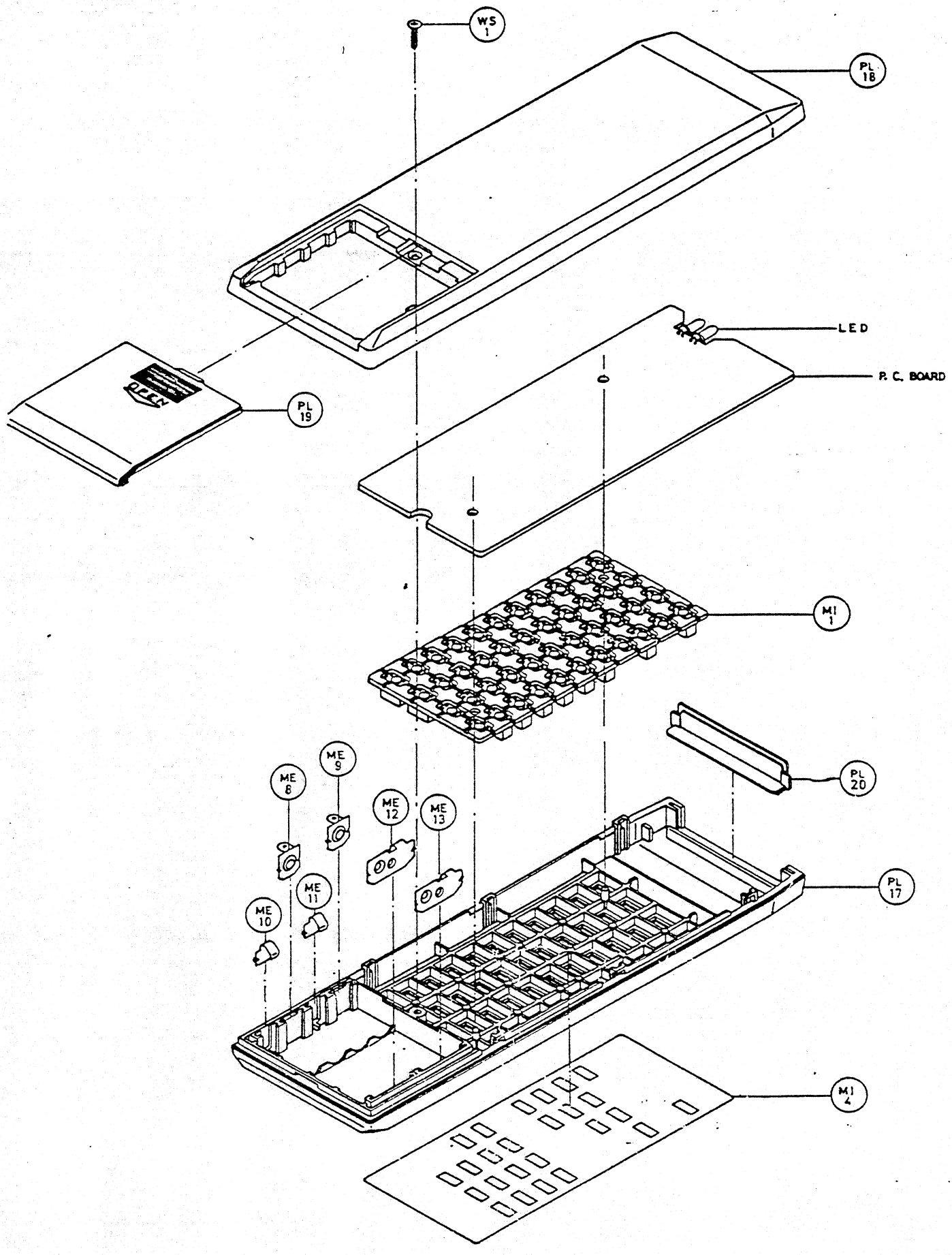

PB2001VS-K REV3
TW®
SW401
SW417
SW410
SW422
SW400
SW403
SW415
SW416


PB2001VS-D(1)
D451
REV0
TW®
G2
G4
G3
G1
SW416
SW411
SW417
SW412

EXPLODE VIEW DIAGRAM

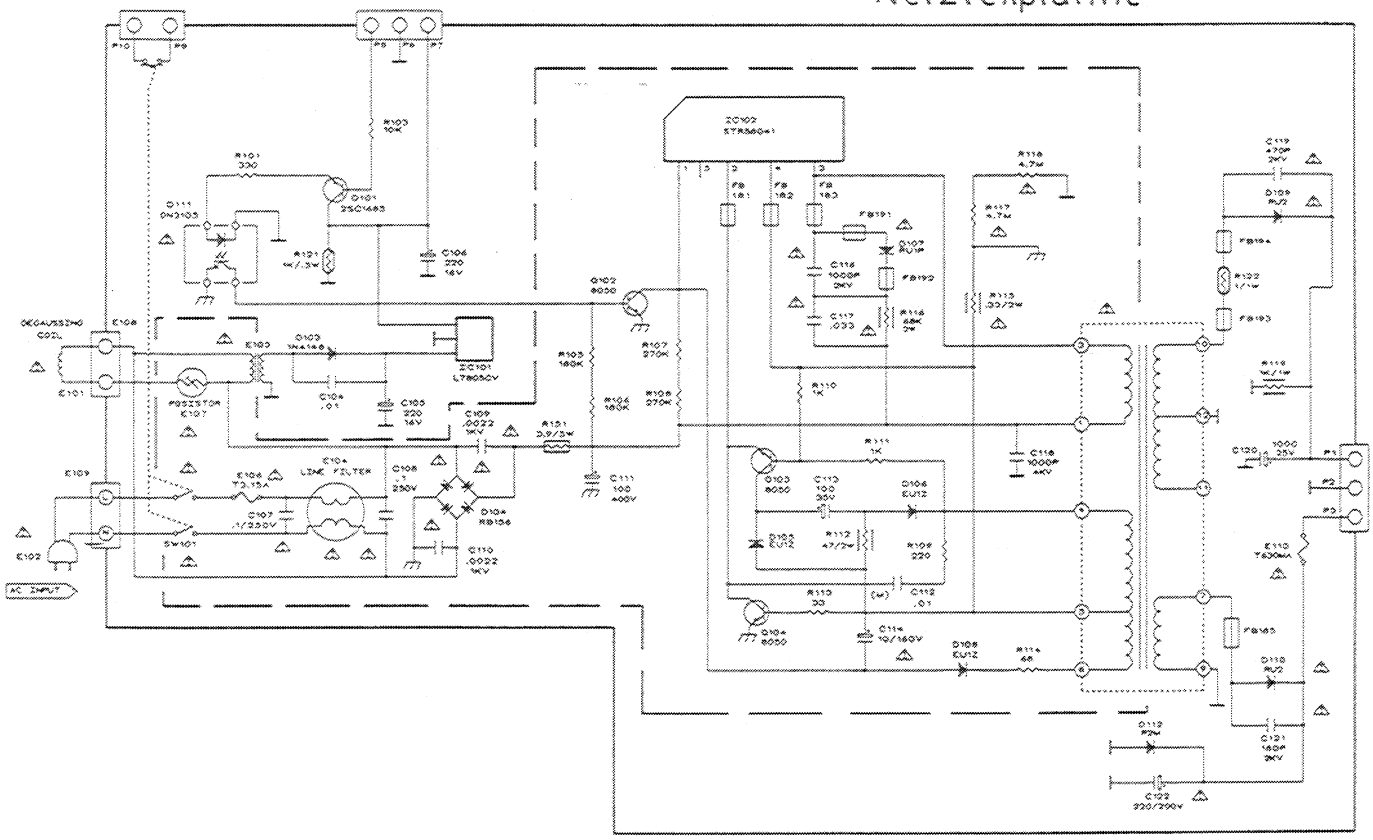


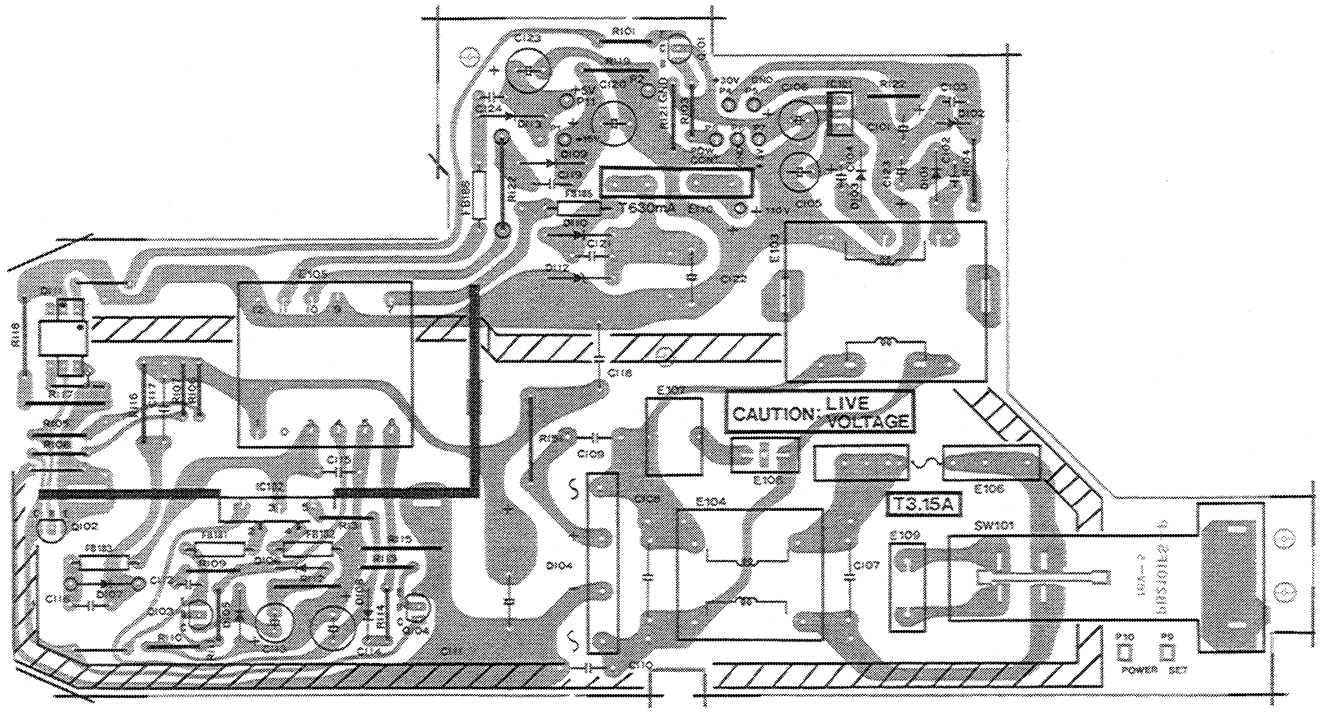
MODEL NO :CTV-2001R
PAL SECAM



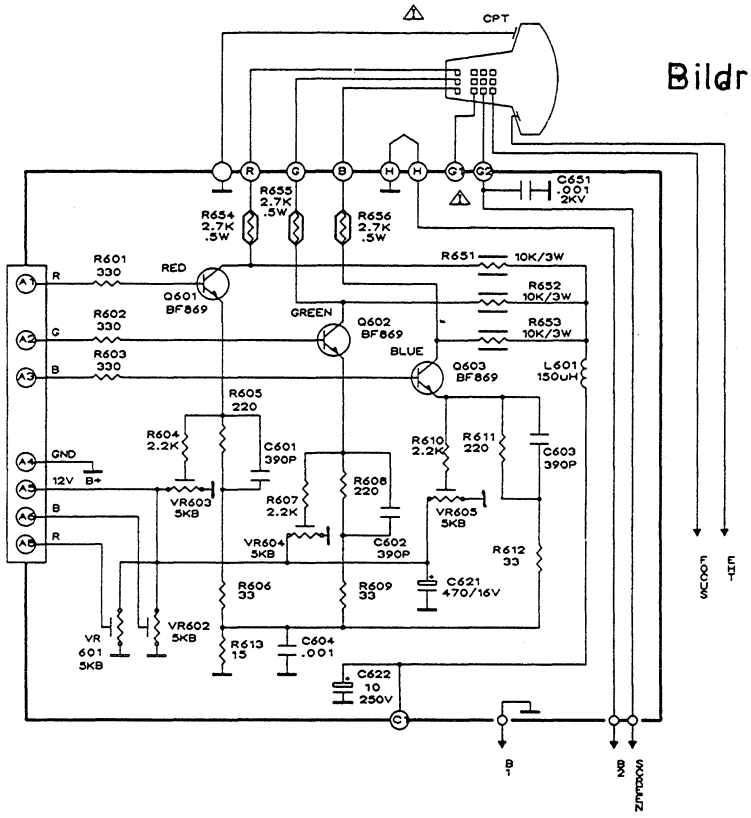
MODEL : CTV-2001R
TITLE : REMOTE CONTROL HANDSET

Netzteilplatine

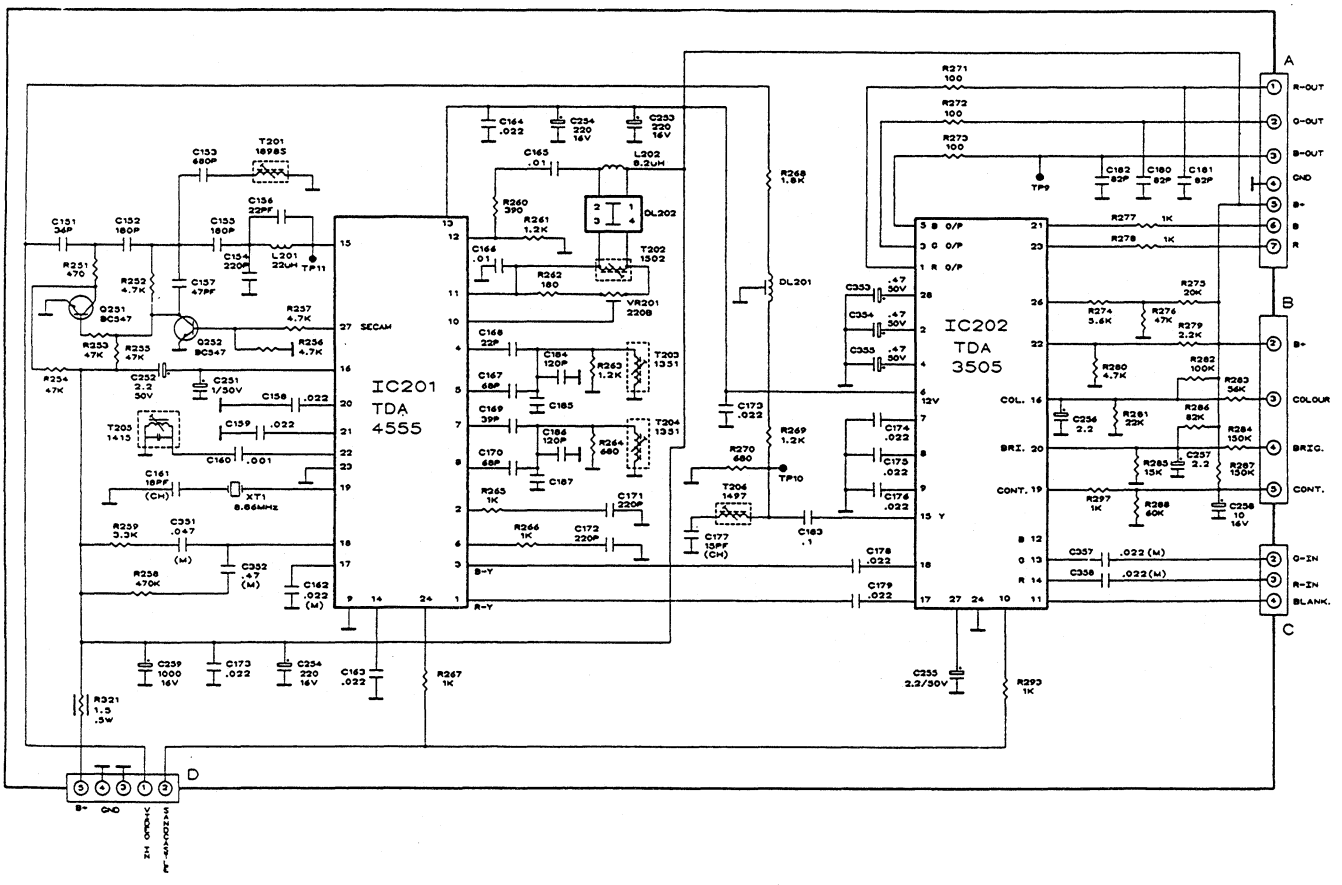


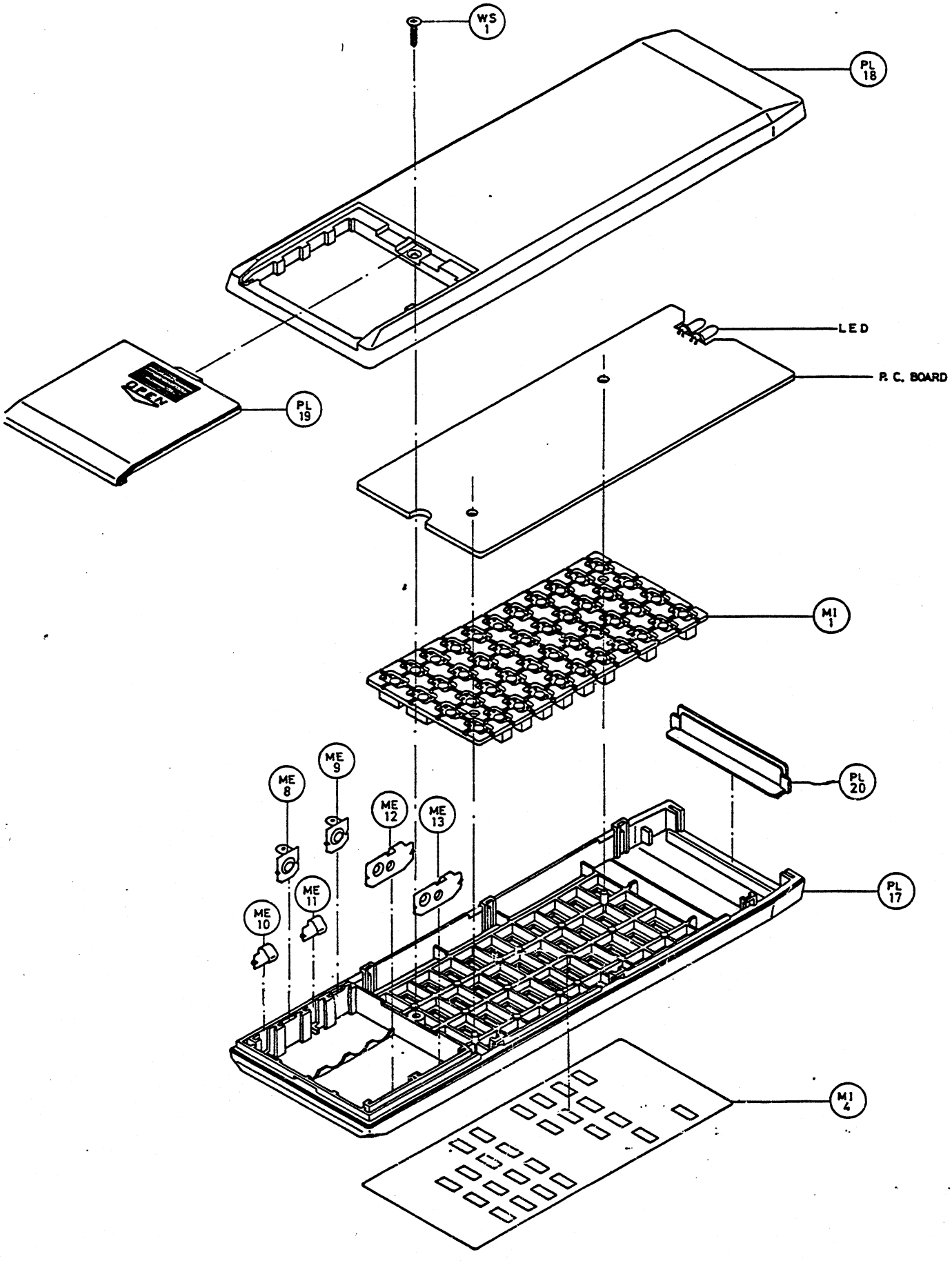


Bildr. Platte



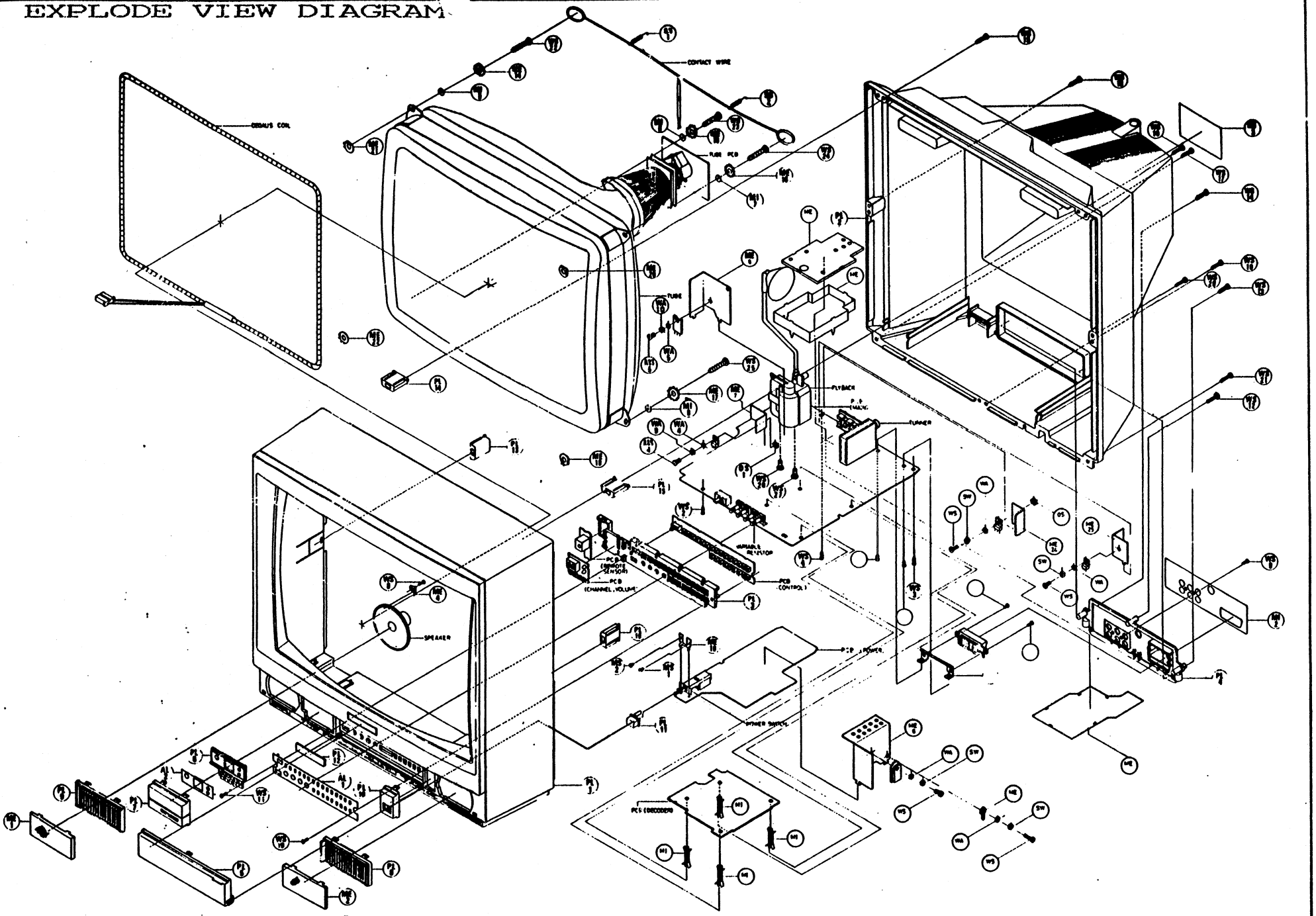
PAL / SECAM



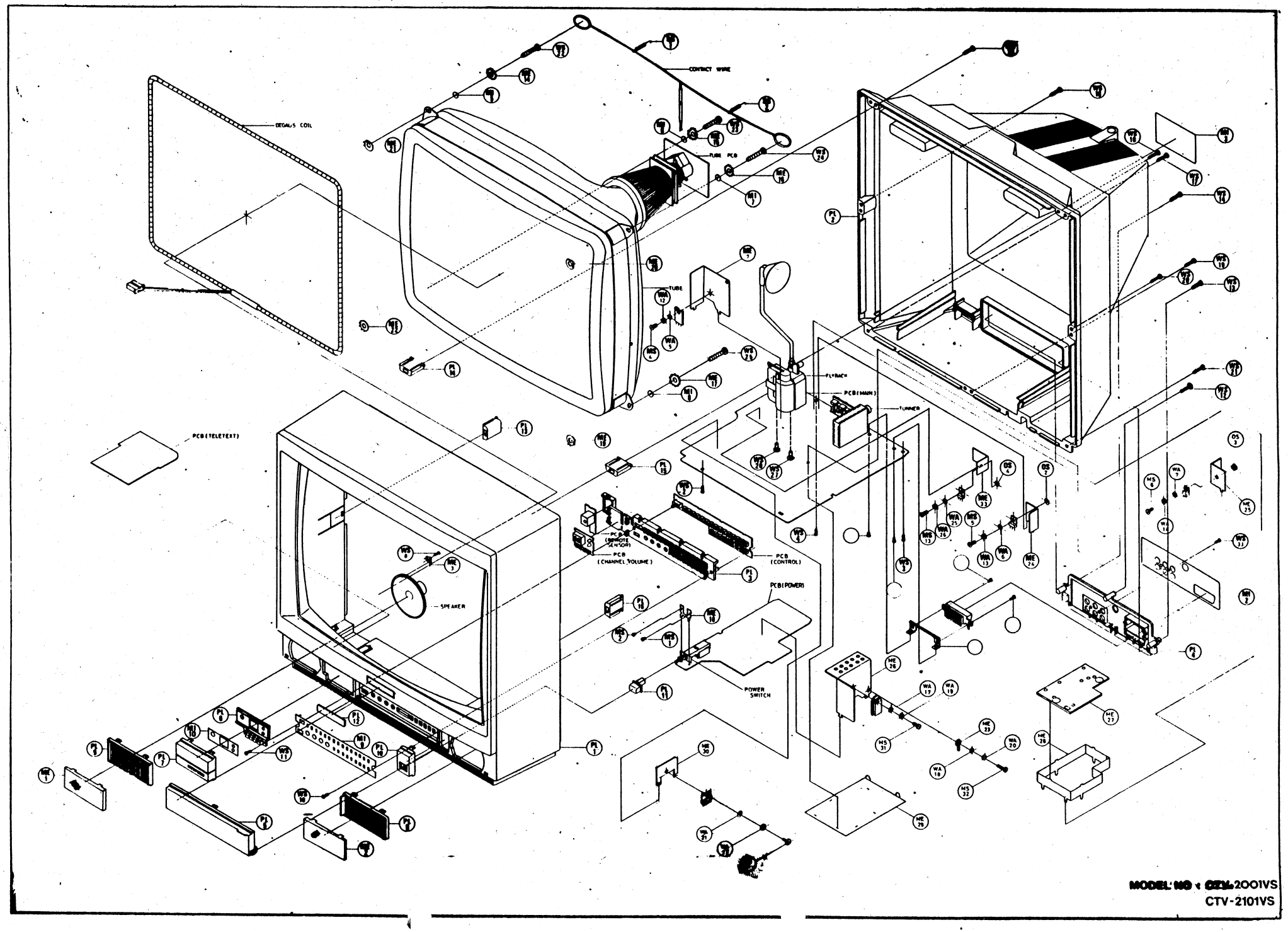


MODEL : CTV-2001R
TITLE : REMOTE CONTROL HANDSET

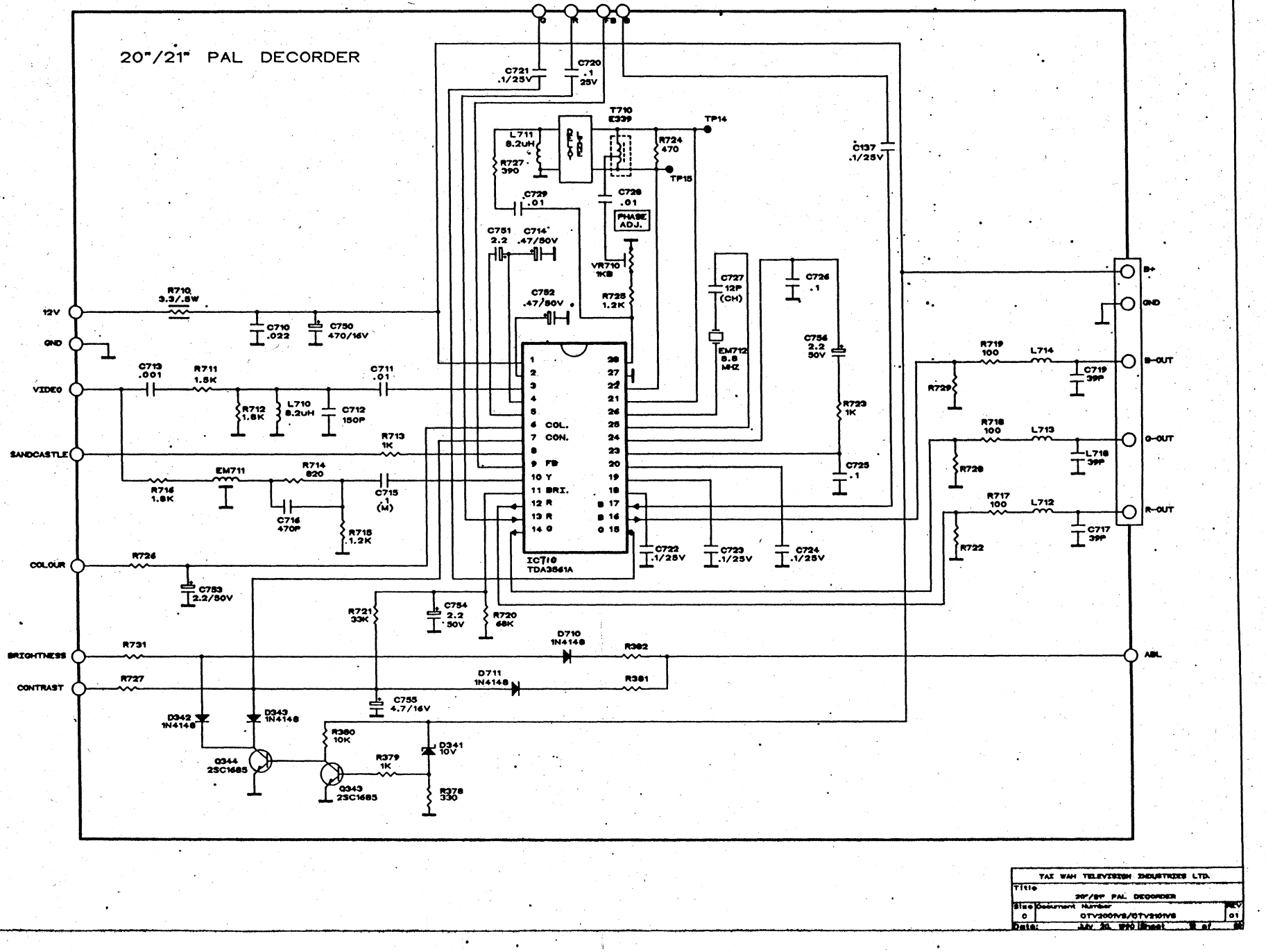
EXPLODE VIEW DIAGRAM



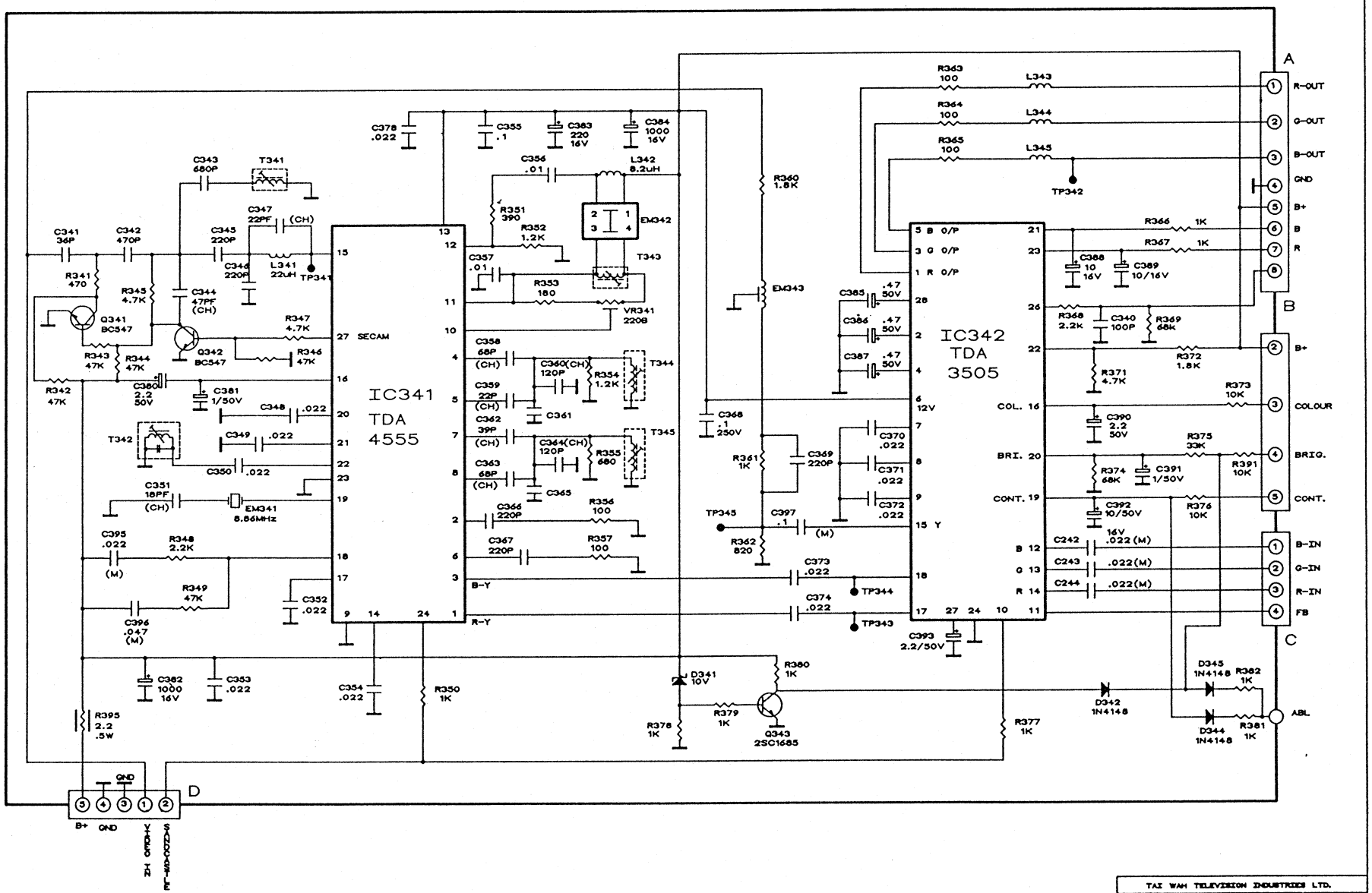
MODEL NO :CTV-2001R
PAL SECAM



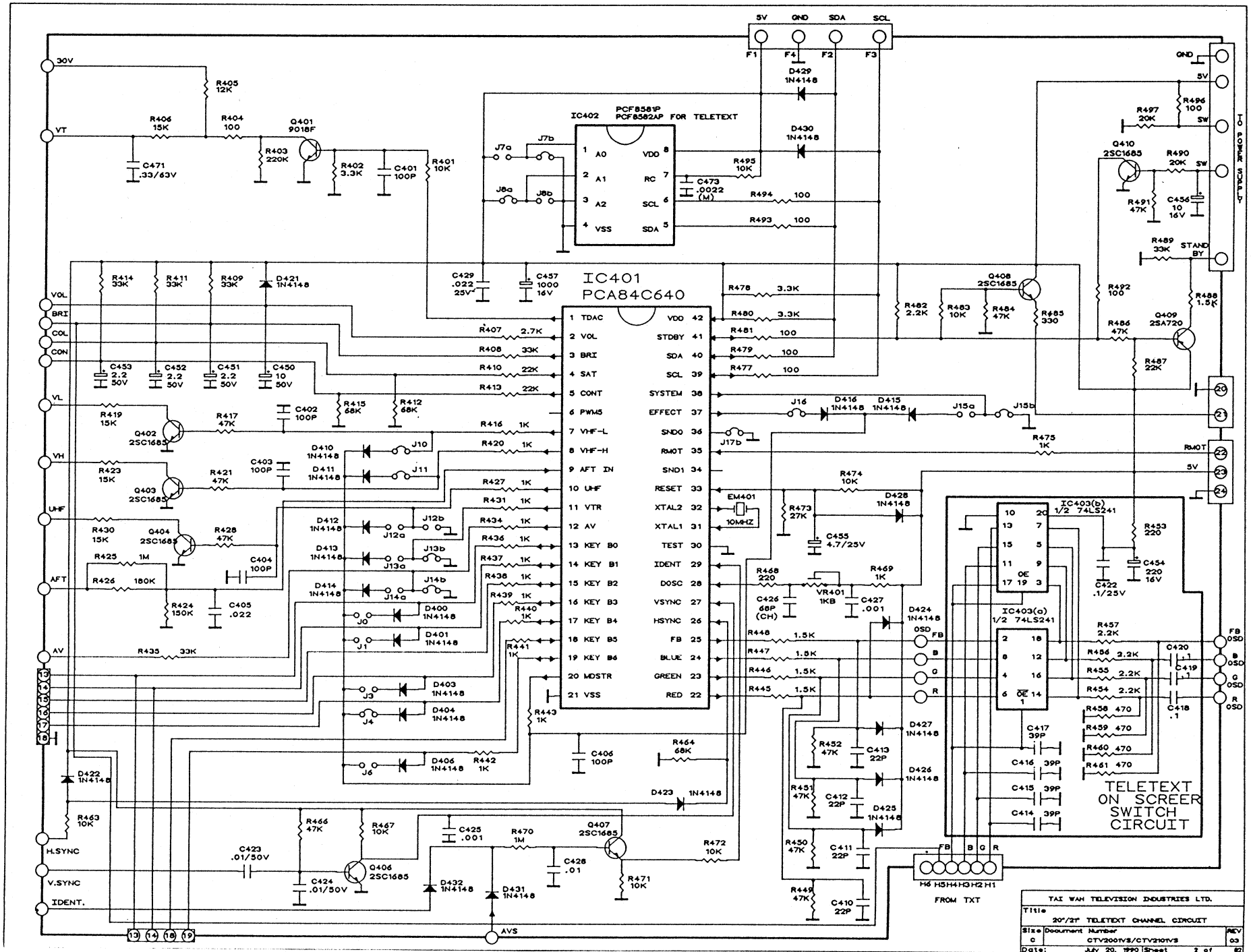
MODEL NO : CTV-2001VS
CTV-2101VS

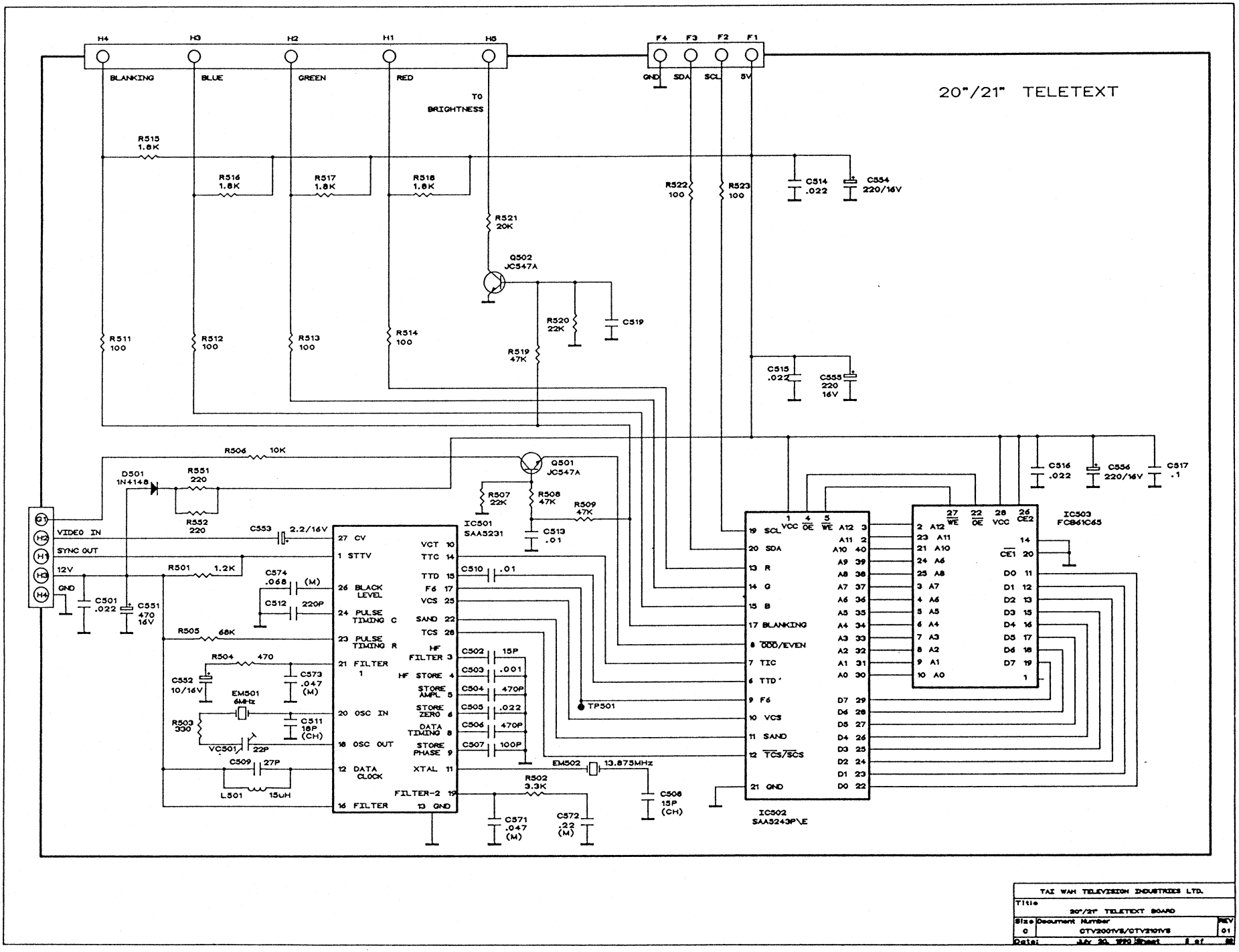

20"/21" PAL DECORDER
12V
GND
VIDEO
SANDCASTLE
COLOUR
BRIGHTNESS
CONTRAST
R710 3.3/.5W
C710 .022
C750 470/16V
C713 .001
R711 1.8K
C711 .01
R712 1.8K
L710 8.2uH
C712 150P
R713 1K
EM711
R714 820
R716 1.8K
C715 .1 (M)
C716 470P
R715 1.2K
R726
C753 2.2/50V
R731
R727
C721 .1/25V
C720 .1 25V
T710 E339
L711 8.2uH
R727 390
R724 470
TP14
TP15
C137 .1/25V
C729 .01
C728 .01
PHASE ADJ.
C751 2.2
C714 .47/50V
VR710 1KB
R725 1.2K
C752 .47/50V
C727 12P (CH)
EM712 6.8 MHZ
C726 .1
C756 2.2 50V
R723 1K
C725 .1
IC710 TDA3561A
COL.
CON.
FB
Y
BRI.
R
G
B
C722 .1/25V
C723 .1/25V
C724 .1/25V
R721 33K
C754 2.2 50V
R720 68K
D710 1N4148
D711 1N4148
R382
R381
C755 4.7/16V
D342 1N4148
D343 1N4148
Q344 2SC1685
R380 10K
R379 1K
Q343 2SC1685
D341 10V
R378 330
R719 100
L714
C719 39P
R729
R718 100
L713
C718 39P
R728
R717 100
L712
C717 39P
R722
B+
GND
B-OUT
G-OUT
R-OUT
ABL
TAI WAH TELEVISION INDUSTRIES LTD.
Title
20"/21" PAL DECODER
Size
0
Document Number
CTV2001VS/CTV2101VS
REV
01
Date:
July 30, 1990
Sheet
of

20"/21" SECAM DECORDER

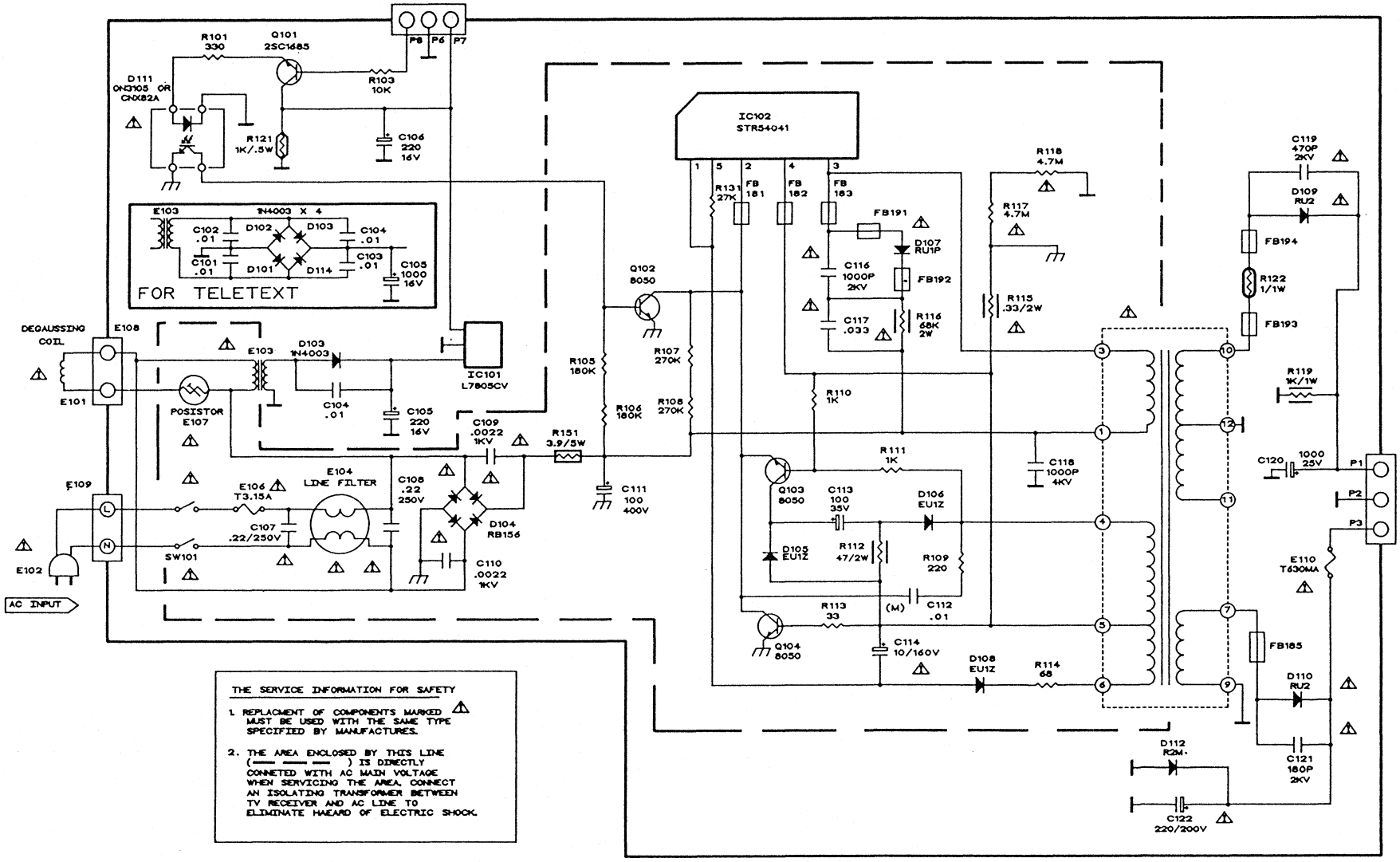


TAI WAH TELEVISION INDUSTRIES LTD.		
Title: 20"/21" SECAM DECORDER		
Size: A	Document Number: CTV2001VS/CTV2101VS	REV: 04
Date: November 8, 1990	Sheet: 4 of 8	


IC401
PCA84C640
IC402 PCF8581P PCF8582AP FOR TELETEXT
TELETEXT ON SCREER SWITCH CIRCUIT
TO SCART SOCKET
FROM TXT
TAI WAN TELEVISION INDUSTRIES LTD.
Title 20"/21" TELETEXT CHANNEL CIRCUIT
Size C
Document Number CTV2001VS/CTV2101VS
REV 03
Date: July 20, 1999 Sheet 2 of 82


20"/21" TELETEXT
H4
H3
H2
H1
H5
F4
F3
F2
F1
BLANKING
BLUE
GREEN
RED
TO BRIGHTNESS
GND
SDA
SCL
5V
R515 1.8K
R516 1.8K
R517 1.8K
R518 1.8K
R521 20K
R522 100
R523 100
C514 .022
C554 220/16V
Q502 JC547A
R511 100
R512 100
R513 100
R514 100
R519 47K
R520 22K
C519
C515 .022
C555 220 16V
R506 10K
Q501 JC547A
D501 1N4148
R551 220
R552 220
R507 22K
R508 47K
R509 47K
C513 .01
C516 .022
C556 220/16V
C517 .1
IC501 SAA5231
IC503 FC861C65
IC502 SAA5243P\E
VIDEO IN
SYNC OUT
12V
GND
C553 2.2/16V
R501 1.2K
C574 .068 (M)
C512 220P
C501 .022
C551 470 16V
R505 68K
R504 470
C552 10/16V
C573 .047 (M)
EM501 6MHz
C511 18P (CH)
R503 330
VC501 22P
C509 27P
L501 15uH
C510 .01
C502 15P
C503 .001
C504 470P
C505 .022
C506 470P
C507 100P
TP501
EM502 13.875MHz
C506 15P (CH)
R502 3.3K
C571 .047 (M)
C572 .22 (M)
27 CV
1 STTV
26 BLACK LEVEL
24 PULSE TIMING C
23 PULSE TIMING R
21 FILTER 1
20 OSC IN
18 OSC OUT
12 DATA CLOCK
16 FILTER
VCT 10
TTC 14
TTD 15
F6 17
VCS 25
SAND 22
TCS 28
HF FILTER 3
HF STORE 4
STORE AMPL 5
STORE ZERO 6
DATA TIMING 8
STORE PHASE 9
XTAL 11
FILTER-2 19
13 GND
SCL
SDA
R
G
B
BLANKING
ODD/EVEN
TTC
TTD
F6
VCS
SAND
TCS/SCS
GND
VCC
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
D7
D6
D5
D4
D3
D2
D1
D0
WE
OE
CE1
CE2
TAI WAH TELEVISION INDUSTRIES LTD.
Title
20"/21" TELETEXT BOARD
Size
C
Document Number
CTV2001VS/CTV2101VS
REV
01
Date:
July 30, 1990
Sheet
8 of 88

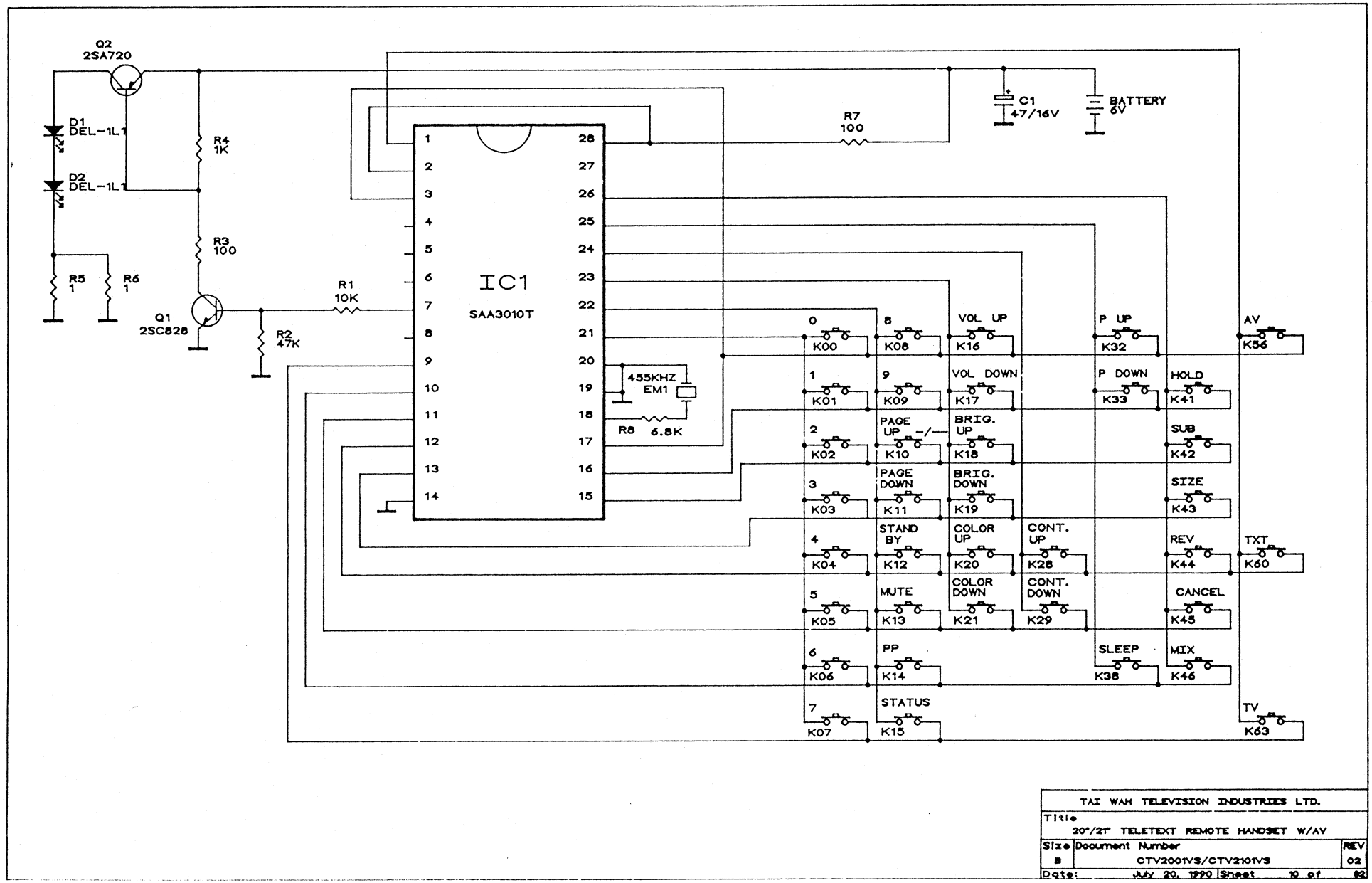
20"/21" POWER SUPPLY CIRCUIT



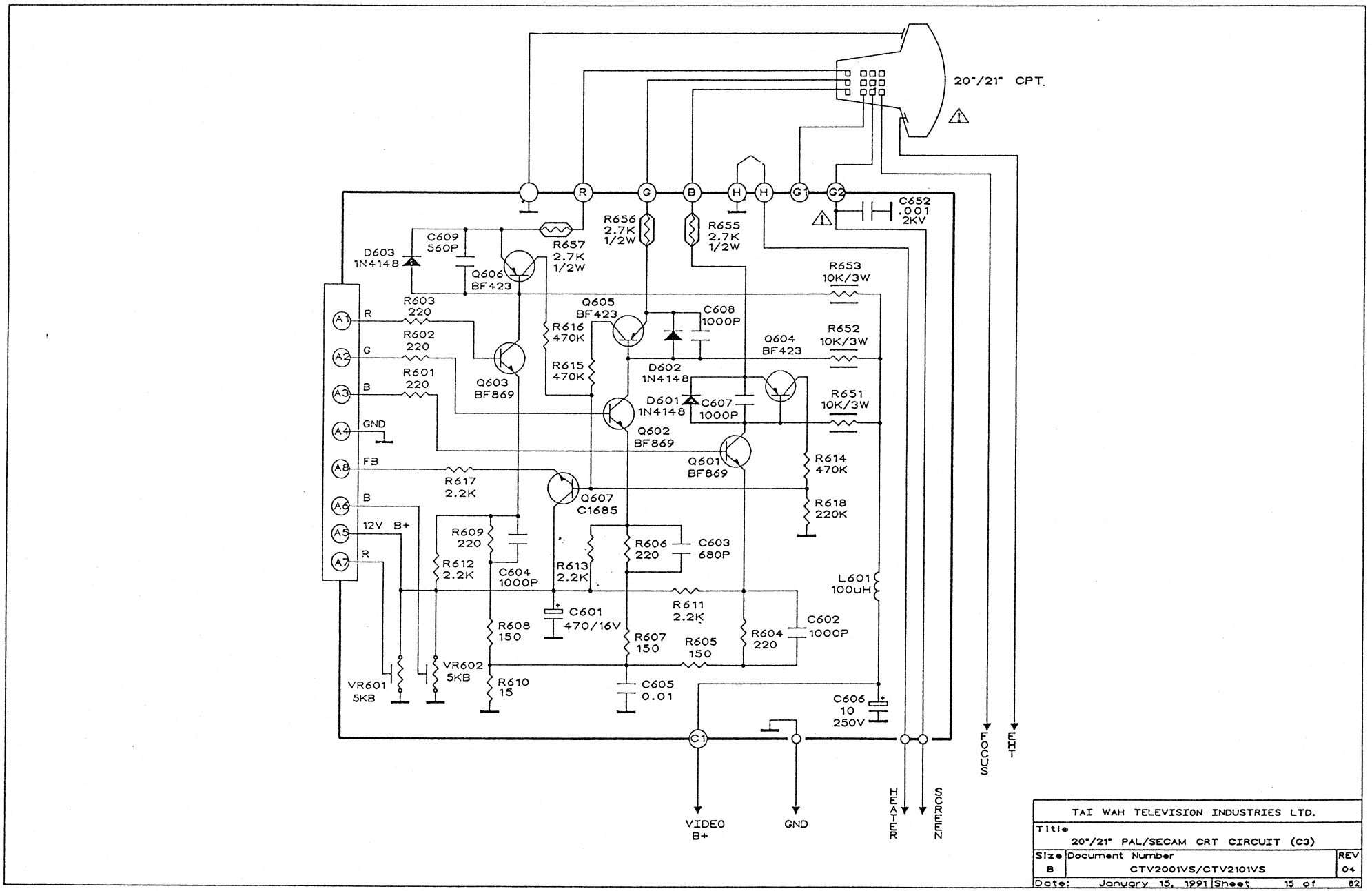
THE SERVICE INFORMATION FOR SAFETY

1. REPLACMENT OF COMPONENTS MARKED ⚠ MUST BE USED WITH THE SAME TYPE SPECIFIED BY MANUFACTURES.
2. THE AREA ENCLOSED BY THIS LINE (— — —) IS DIRECTLY CONNETED WITH AC MAIN VOLTAGE WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAEARD OF ELECTRIC SHOCK.

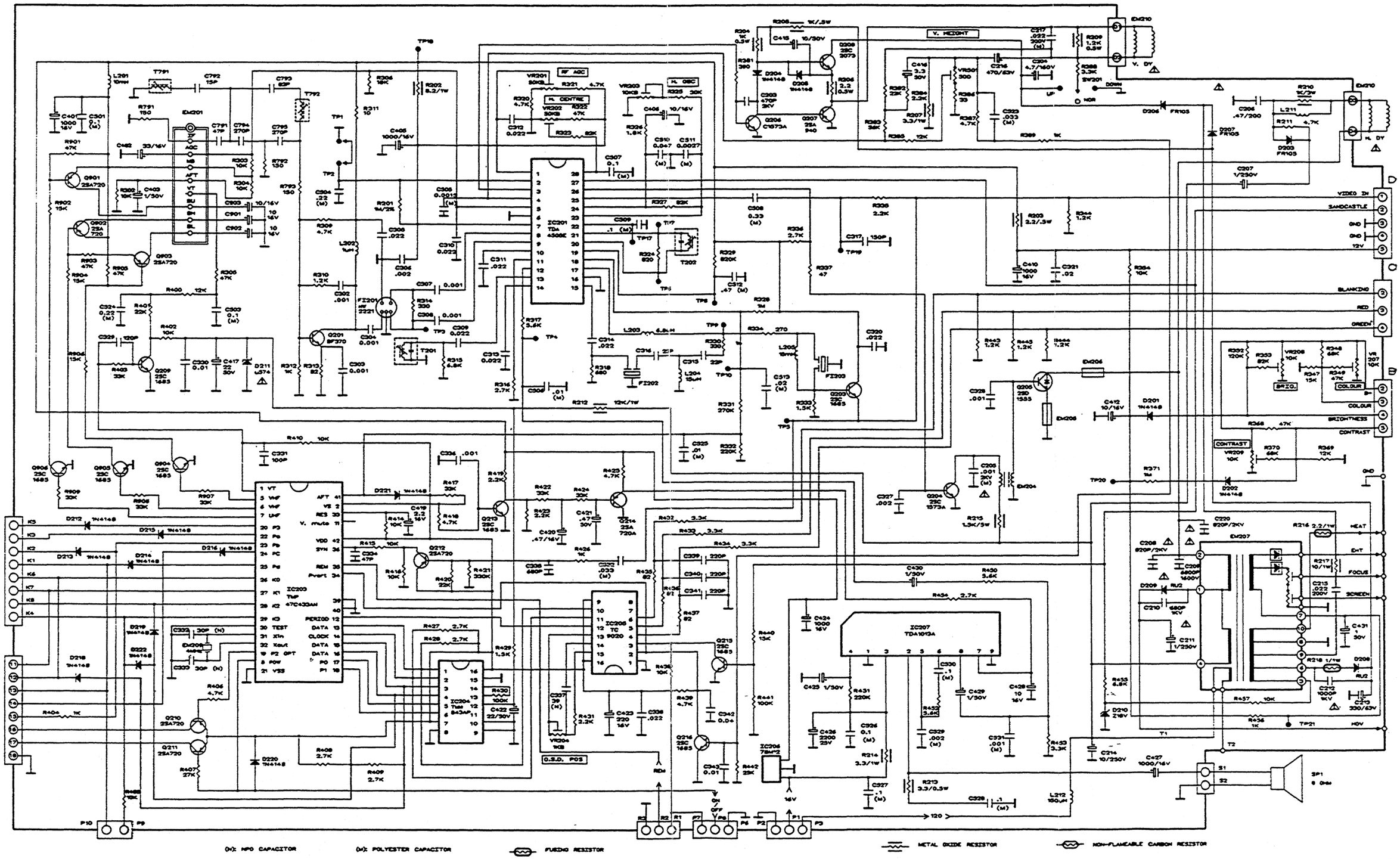
TAI WAN TELEVISION INDUSTRIES LTD.		
Title: 20"/21" POWER SUPPLY		
Size: C	Document Number: CTV2001VS/CTV2101VS	REV: 01
Date: November 8, 1990	Sheet 6 of 82	



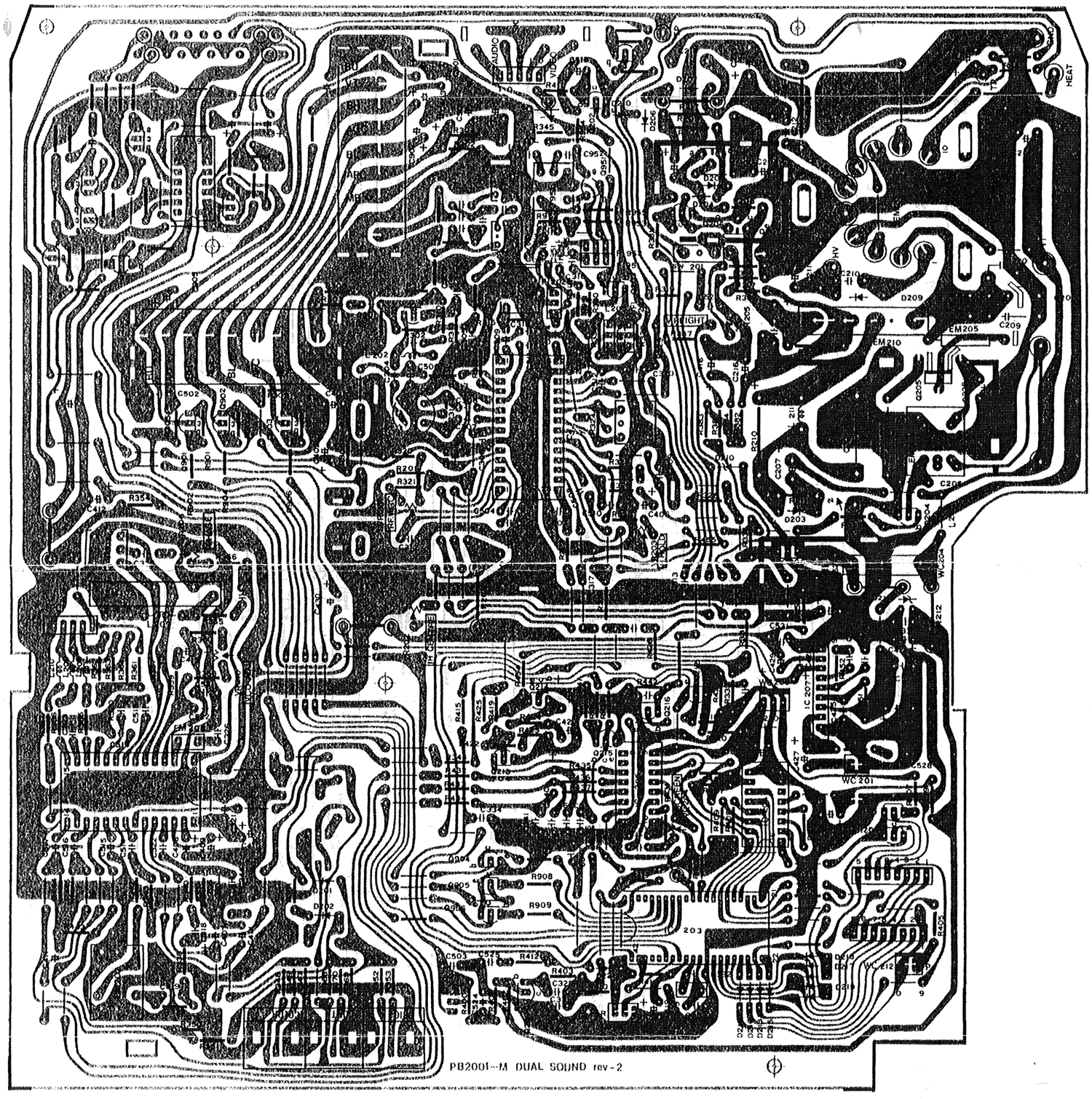
TAI WAH TELEVISION INDUSTRIES LTD.		
Title: 20"/21" TELETEXT REMOTE HANDSET W/AV		
Size: B	Document Number: CTV2001VS/CTV2101VS	REV: 02
Date: July 20, 1990	Sheet 10 of 92	



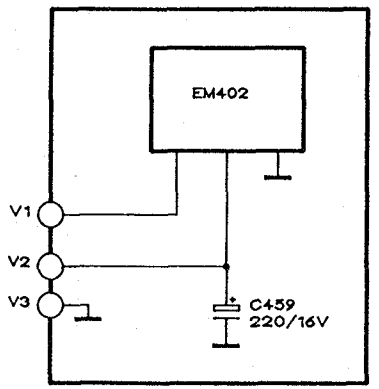
TAI WAH TELEVISION INDUSTRIES LTD.		
Title: 20"/21" PAL/SECAM CRT CIRCUIT (C3)		
Size: B	Document Number: CTV2001VS/CTV2101VS	REV: 04
Date: Janugry 15, 1991	Sheet 15 of 82	


IC201 TDA 4505E
IC203 TMP 47C433AN
IC204 TMS 843AP
IC205 TC 9020
IC206 78MM2
IC207 TDA1013A
RF AGC
H. CENTRE
H. OSC
V. HEIGHT
V. DY
H. DY
VIDEO IN
SANDCASTLE
GND
GND
12V
BLANKING
RED
GREEN
BRIG.
COLOUR
BRIGHTNESS
CONTRAST
HEAT
EHT
FOCUS
SCREEN
S1
S2
SP1
8 Ohm
K5
K3
K2
K1
K6
K7
K8
K4
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
120
O.S.D. POS
(K): NPO CAPACITOR
(M): POLYESTER CAPACITOR
FUSIBLE RESISTOR
METAL OXIDE RESISTOR
NON-FLAMEABLE CARBON RESISTOR

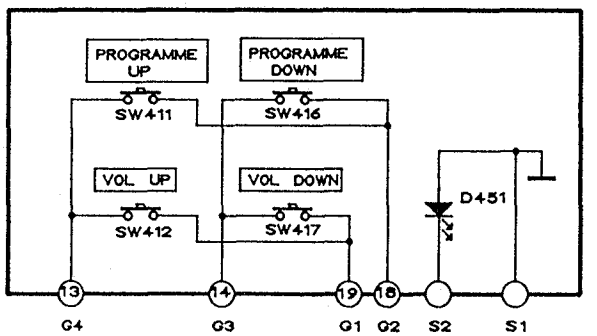
Leiterplatte Hauptchassis



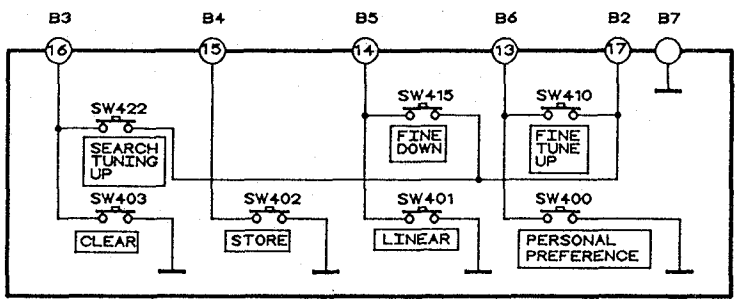
I.R. BOARD



LED BORAD



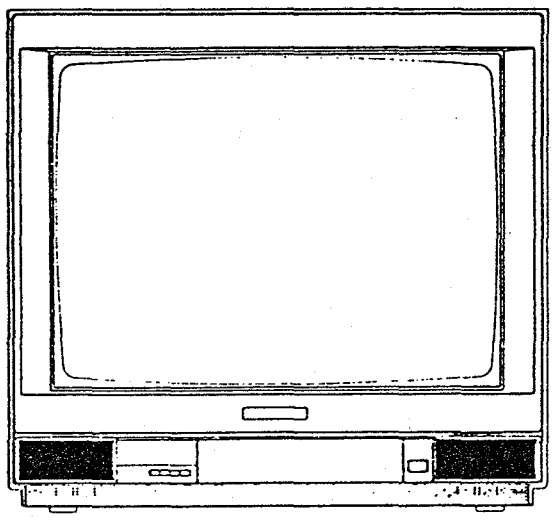
KEY BOARD



TAI WAH TELEVISION INDUSTRIES LTD.		
Title: 20"/21" CONTROL KEYS CIRCUIT		
Size: B	Document Number: CTV2001VS/CTV2101VS	REV: 02
Date: July 21, 1999	Sheet 8 of 82	

Quelle Technischer Kundendienst 053.551 8

Schaltbild
Leiterplatten:



PAL / SECAM
with TELETEXT

BESTELL-NR.	0535518
GERAETEBEZEICHNUNG	FARBFERNSEHGERAET
WARENGATTUNG	647
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	51 CM, MONITOR, VT
PRIVILEG	FT 1002 B
LIEFERANTEN-NR.	146941
PREIS	748.00
KATALOG	912
GARANTIEZEIT	6
KD-SEKTOR	F
HEIM/BRINGE	HEIMSERVICE
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

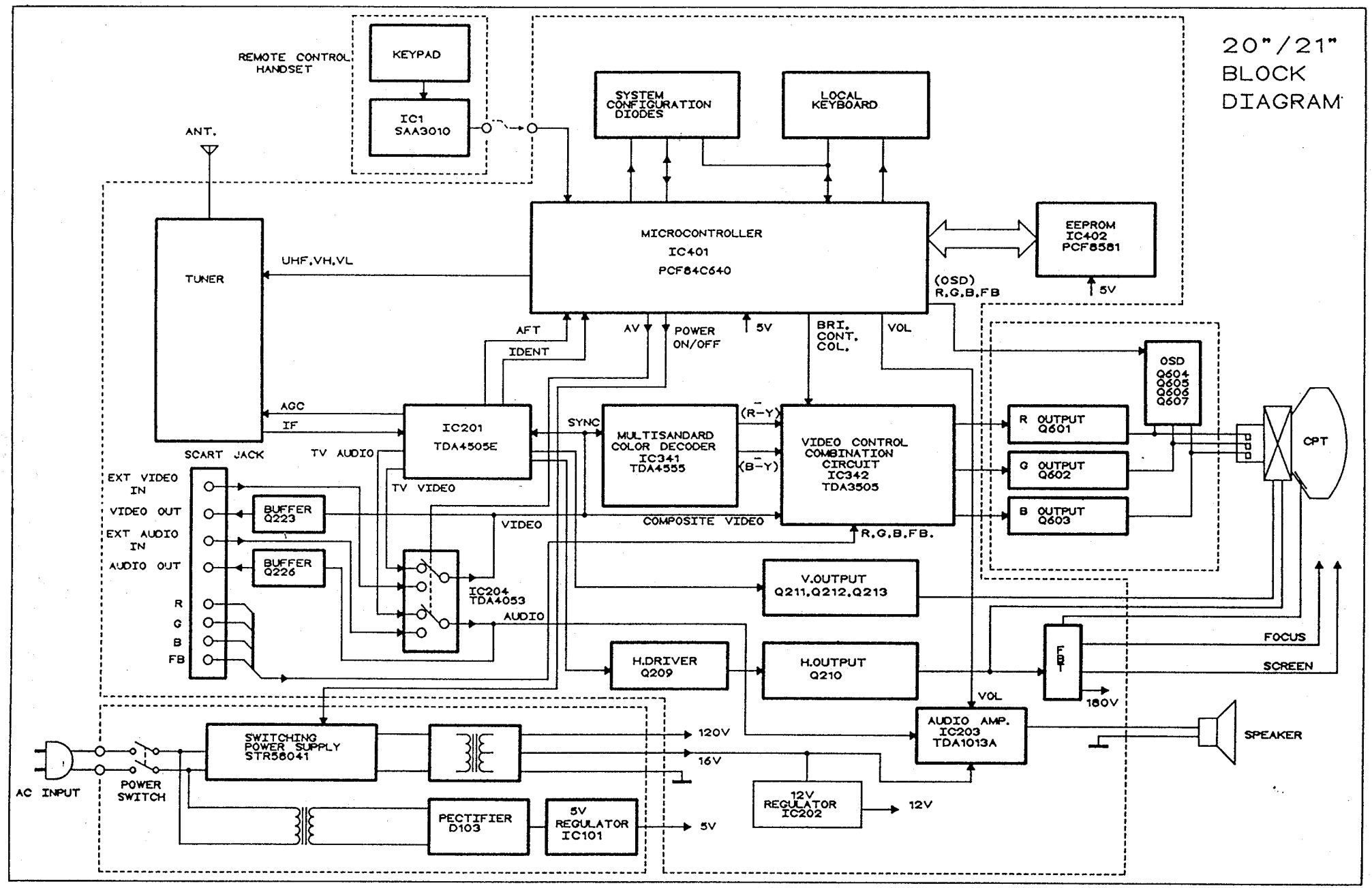
FT 1002 B

Großversandhaus Quelle, Gustav Schickedanz KG.
Kundendienstzentralleitung Ulmenstraße 52 Nürnberg
Nachdruck nicht gestattet
Änderungen vorbehalten

912 6.91

Bei allen Reparaturen sind die gültigen Sicherheitsvorschriften zu beachten!

6700-451/1184


20"/21"
BLOCK
DIAGRAM
REMOTE CONTROL HANDSET
KEYPAD
IC1
SAA3010
SYSTEM CONFIGURATION DIODES
LOCAL KEYBOARD
ANT.
TUNER
UHF,VH,VL
MICROCONTROLLER
IC401
PCF84C640
EEPROM
IC402
PCF8581
5V
(OSD)
R,G,B,FB
AFT
IDENT
AV
POWER
ON/OFF
5V
BRI.
CONT.
COL.
VOL
OSD
Q604
Q605
Q606
Q607
AGC
IF
SCART JACK
TV AUDIO
IC201
TDA4505E
SYNC
MULTISANDARD
COLOR DECODER
IC341
TDA4555
(R-Y)
(B-Y)
VIDEO CONTROL
COMBINATION
CIRCUIT
IC342
TDA3505
R OUTPUT
Q601
G OUTPUT
Q602
B OUTPUT
Q603
CPT
EXT VIDEO IN
VIDEO OUT
EXT AUDIO IN
AUDIO OUT
R
G
B
FB
BUFFER
Q223
BUFFER
Q226
TV VIDEO
VIDEO
COMPOSITE VIDEO
R,G,B,FB.
IC204
TDA4053
AUDIO
V.OUTPUT
Q211,Q212,Q213
H.DRIVER
Q209
H.OUTPUT
Q210
FBT
FOCUS
SCREEN
180V
VOL
AUDIO AMP.
IC203
TDA1013A
SPEAKER
AC INPUT
POWER
SWITCH
SWITCHING
POWER SUPPLY
STR58041
120V
16V
5V
PECTIFIER
D103
5V
REGULATOR
IC101
12V
REGULATOR
IC202
12V